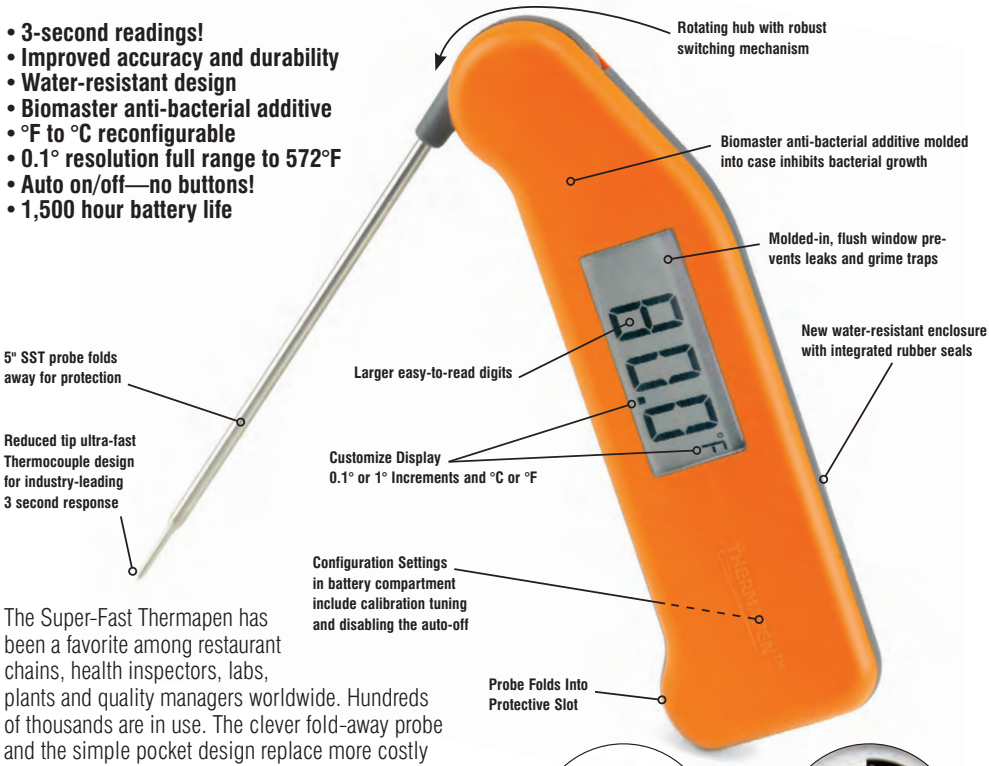
ThermoWorks

THERMOMETRY FOR INDUSTRY & SCIENCE

SPLASH-PROOF SUPER-FAST THERMAPEN™

Professional Thermocouple

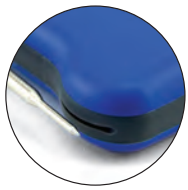
- 3-second readings!
- Improved accuracy and durability
- Water-resistant design
- Biomaster anti-bacterial additive
- °F to °C reconfigurable
- 0.1° resolution full range to 572°F
- Auto on/off—no buttons!
- 1,500 hour battery life


Rotating hub with robust switching mechanism
Biomaster anti-bacterial additive molded into case inhibits bacterial growth
Molded-in, flush window prevents leaks and grime traps
New water-resistant enclosure with integrated rubber seals
5" SST probe folds away for protection
Larger easy-to-read digits
Reduced tip ultra-fast Thermocouple design for industry-leading 3 second response
Customize Display 0.1° or 1° Increments and °C or °F
Configuration Settings in battery compartment include calibration tuning and disabling the auto-off
Probe Folds Into Protective Slot

The Super-Fast Thermapen has been a favorite among restaurant chains, health inspectors, labs, plants and quality managers worldwide. Hundreds of thousands are in use. The clever fold-away probe and the simple pocket design replace more costly and bulky handheld thermometers while using the same professional thermocouple technology. This new generation Thermapen introduces a robust, splash-proof design with molded-in seals to protect the thermometer from wet hands and splashes.

Battery cover is tethered so it will never get lost

Personalize user settings: °C/°F, Resolution (0.1° or 1°), and Auto off



Probe clips into place when not in use

No buttons to press or learn makes staff training a breeze

Speed & Accuracy

Even more accurate than before and slightly faster! Our proprietary circuit yields accuracies better than ±0.7°F. That includes all errors! (many competitors don't include the probe error in their spec.) Each unit comes with a NIST-Traceable certificate of calibration showing test results for the individual thermometer. Resolution is now 0.1° over the full range. Improvements in the probe technology now yield a blazing fast speed of 3 seconds to a full temperature reading.

No Cables!

The components most likely to fail in a commercial thermometer are the cable and its connector. Also, the typical handheld meter and probe combination requires two hands. What do you do with the cable when you're through with it? The competition want you to wrap it around the meter, which is time consuming and a natural trap for grime and bacteria! The one-handed Thermapen eliminates frayed cables, snags, germ traps and wasted time while freeing your second hand.

Simple Operation

Just open the probe and the Thermapen comes on. Close it and it shuts off. No buttons or switches to catch germs, confuse staff and cause errors. Configuration settings in the battery compartment allow management to easily set the Thermapen for °C or °F, read in tenths or whole degrees (0.1° or 1°), and disable the auto-off for continuous readings till the probe is closed. Although likely to never be needed, a calibration trim button fine-tunes the Thermapen calibration at a single temperature such as an ice-bath.

Incredible Value

The closest commercial competition for the Thermapen sells for about $200. Other meter and probe combinations sell for up to $250! In most cases, you can buy a whole new Thermapen for about the price the competition charges for just a replacement probe. Compare speed, convenience, accuracy and the new durability of the Splash-Proof Super-Fast Thermapen and you'll see how you can save significant money while improving your own product quality.

Color Options

GRAY
$96 231-207

WHITE
$96 231-217

YELLOW
$96 231-227

GREEN
$96 231-237

RED
$96 231-247

BLUE
$96 231-257

BROWN
$96 231-267

BLACK
$96 231-277

ORANGE
$96 231-287

PINK
$96 231-297

PURPLE
$96 231-307

ORDER 6-UP: ONLY $80 EACH

Biomaster
ANTIMICROBIAL ADDITIVES

What is Biomaster?

Biomaster is an anti-bacterial additive mixed with the plastic before molding the Thermapen housings. It inhibits the growth of common bacteria (E.coli, Salmonella, Listeria, and Staphylococcus). We still recommend the Thermapen body be cleaned and the probe should be wiped before food use but Biomaster will significantly reduce bacterial risk. Biomaster is non-chemical and non-toxic to humans and cannot contaminate food or liquids.

NSF

Independently certified for use in and around foods.

NIST TRACEABLE

Each Thermapen is traceable to NIST and includes a certificate of calibration with actual test data at two temperatures, proving the accuracy of each Thermapen.

Specifications

Range	-58.0 to 572.0°F (-49.9 to 299.9°C)
Accuracy	±0.72°F (±0.4°C) from -58 to 392°F (-49.9 to 199.9°C) ±1.8°F (±1.0°C) from 392 to 572°F (200 to 299.9°C)
Speed	From 75°F to 32°F: ≤ 3 seconds to within 1°F
Resolution	0.1°F/°C full range (user reconfigurable to 1.0°F/°C)
Sensor	High performance type K thermocouple
Operating Temp.	-4 to 122°F (-20 to 50°C) (max. ambient limits of Thermapen body)
Battery	CR2032 (3V) lithium coin cell x 2, 1,500 hours
Auto-Off	10 minutes (user reconfigurable to disable auto-off)
Display	0.55" (14mm) LCD
Dimensions	6.1" (L) x 1.85"(H) x 0.75" (D) 153mm (L) x 47mm (H) x 19mm (D)
Weight	0.25 lbs. (97g.)
Calibration	NIST-Traceable Certificate included

Accessories

Zipper Wallet
$8 830-001

Wall Bracket
$19 10203

Leather Wallet
$16 830-110-L

Silicone Boot
$6 830-260

Batteries (CR2032)
$4 839-195 2-pack

MTC
Mini Handheld Thermocouple Meter

Buy 5: $35 Each!

Shown with 113-151 probe, 2 second response.

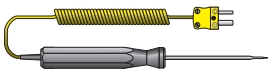
- **Resolution to 0.1°C or °F**
- **Uses interchangeable type K thermocouple probes**
- **Large LCD display**
- **IP65 splash resistant**
- **°C/°F switchable**
- **Magnetic back panel**

Our new Mini Handheld Thermocouple (MTC) is water-resistant, lightweight, and includes a type K thermocouple socket for use with virtually any type K probe. The MTC has a splash rating of IP65 so kitchen, lab or factory use is no problem. With a large digit display you'll be able to read temperatures anywhere in the kitchen. A magnetic back panel attaches to any metal surface for easy mounting.

Specifications

Range	-83 to 1999°F / -64 to 1400°C
Operating Temp.	32 to 122°F / 0 to 50°C
Accuracy	1% of reading or 1°C/1.8°F whichever is greater
Resolution	0.1°C or °F
Battery	1 x CR2032 Lithium cell, 100 hours
Auto Shutoff	After 45 seconds in HOLD mode, or 4 minutes in normal display mode
Water Resistance	IP65
Dimensions	1.7" (W) x 0.79" (D) x 3.1" (L) 43mm (W) x 20mm (D) x 78mm (L)
Weight	1.42 oz. / 40.15 g.
Probe	Accepts type K probes with mini connector. Probe not included.
Units	Switchable °C or °F
Certificate	Includes Certificate of Conformance

Accessories



Thermocouple Probes
See pages 7-12

Zipper Wallet
830-001

To Order

MTC	MTC Mini Handheld Thermocouple	$43
830-001	Protective Zipper Wallet	$8

Thermamite 1: RTD Meter
Thermamite 5: Thermocouple Meter

Thermamite 5
Shown with optional rubber boot.

Thermamite 1

- **Thermocouple unit to 575°F (TM5)**
- **Platinum RTD sensor for higher accuracy (TM1)**
- **Handy size & big display**
- **0.1° Resolution (TM1)**
- **Includes NIST-Traceable calibration certificate**

Specifications

THERMAMITE 1 RTD (TM1)	
Range	-49.9 to 199.9°F / -49.9 to 199.9°C
Accuracy	±0.9°F / 0.5°C, ±1 digit
Resolution	0.1°F or °C
Probe	100 ohm platinum RTD, 4.25"(L) x .125"(∅)SST
Battery	9V, 500 hours
Dimensions	4.76" (L) x 2.67" (W) x 1" (D)

THERMAMITE 5 Thermocouple (TM5)	
Range	-25 to 575°F / -30 to 300°C
Accuracy	±1%, ±1 digit
Resolution	1°F or °C
Probe	Type K Thermocouple, 4.25" (L) x .125" (∅)SST
Battery	9V, 500 hours
Dimensions	4.76" (L) x 2.67" (W) x 1" (D)

To Order — Limited Time Price!

262-551	Thermamite 1 °F RTD Meter, 0.1°F ***WAS $73***	$59
262-051	Thermamite 1 °C RTD Meter, 0.1°C ***WAS $73***	$59
261-555	Thermamite 5 °F Thermocouple Meter, 1°F ***WAS $63***	$49
261-755	Thermamite 5 °C Thermocouple Meter, 1°C ***WAS $63***	$49
830-230	Protective Boot for Thermamite Meters	$8
832-120	Wall Bracket for Thermamite	$12

Thermocouples are preferred in food and other applications for their fast response and wide range. The RTDs are chosen for applications where you can trade a little speed for a bit more accuracy. Now you can get a tough little thermocouple thermometer (TM5) for just $49, including the probe! Or, get the accuracy of a platinum RTD sensor (TM1) for only $59.

Therma Plus / CaterTemp Plus
Rugged Waterproof Thermocouple Meters

Therma Plus shown with 303-159 Fast-Response type K probe.

- **Includes Type K socket for replaceable probes (Therma Plus)**
- **1 second response for meter display (Therma Plus)**
- **IP66/67 waterproof rating**
- **Accuracy certified with NIST certificate of calibration**
- **Extruded aluminum case for maximum durability**
- **5,000 hour battery life**

CaterTemp Plus includes fixed Fast-Response type K probe.

Limited Time (Therma Plus): FREE 303-159 Probe Included!

Designed for harsh industrial environments, the new Therma Plus and CaterTemp Plus are rugged, waterproof, accurate and easy-to-use. Housed in crushproof extruded aluminum and sealed with rubber gaskets at the top and bottom of the meters. Run over one with a truck and it would survive! The Therma Plus is considered splash-resistant and features a socket for interchanging probes while the CaterTemp Plus comes with an attached penetration probe making it even more moisture-proof (no connector socket).

A Hold function locks readings for later. Meters are factory-set for °F, but can be switched by the user to °C with the front panel buttons. Digits are large and easy-to-read. Accuracy is a phenomenal 0.4°C over a wide range with even better accuracy below 100°C. The CaterTemp Plus features a narrower range (limited by the probe) but includes the probe error for better precision. Each unit is individually calibrated and includes a NIST-Traceable calibration certificate.

Specifications

	Therma Plus	CaterTemp Plus
Range	-148 to 2501°F / -100 to 1372°C	-58 to 571.8°F / -50 to 299.9°C
Accuracy	±0.5°F / ±0.28°C from 32 to 212°F / 0 to 100°C ; ±0.72°F / ±0.4°C, ±0.1% full range	
Probe	Interchangeable type K thermocouple, mini socket	Fixed type K thermocouple, .125" dia. x 4" (L), reduced tip
Resolution	0.1/1°F/°C auto ranging at 299.9°F/°C	0.1°F or °C full range
Units	Switchable °C or °F	
Response	1 second for meter	3 to 4 seconds to full reading
Housing	Extruded aluminum (IP66/67 rated)	
Battery	9V, 5000 hours	
Dimensions	4.5" (L) x 2.4" (W) x 1.4" (D) 115mm (L) x 60mm (W) x 35mm (D)	
Weight	0.5 lb. / 244 g.	
Warranty	2 years for meter	
Calibration	NIST-Traceable Certificate included	

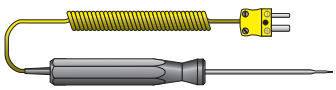
To Order

Y-221-071	Therma Plus, includes 303-159 probe	$189
221-059	CaterTemp Plus with attached probe	$189
10210	ABS Carrying Case. Fits meter and probes	$29
832-150	Wall Bracket for Therma Plus / CaterTemp Plus	$16

Accessories

Hard Case
10210

Wall Bracket
832-150



Thermocouple Probes (For ThermaPlus)
See pages 7-12

THERMOCOUPLE METERS—HIGH ACCURACY

MicroTherma 2K

Limited Time:
FREE 303-159
Probe Included!

Shown with 303-159
Fast Response type K probe.

- **Meter accuracy to ±0.36°F / ±0.2°C**
- **Interchangeable type K thermocouples**
- **System cal feature to adjust for probe error**
- **Includes Hold, Max and Min functions**

This is the highest precision thermocouple meter on the market for less than $1,000. An auto self-cal feature keeps the meter accurate. If you want to maximize "system accuracy", adjust the reading up to ±2.5°C to offset for any probe errors. Resolution is a solid 0.1°C or °F below 2000°. Auto-ranges to 1 degree above. Shown here in the type K model, available in other types at thermoworks.com. Fully featured including Hold, Min/Max, °C/°F switching, and comes with a NIST-Traceable certificate.

MicroTherma 2T

Limited Time:
FREE 307-159
Probe Included!

Shown with 307-159
Fast Response type T probe.

- **Type T thermocouples**
- **Meter accuracy to ±0.36°F / ±0.2°C**
- **Self-calibrating circuitry**
- **Includes Hold, Max and Min functions**
- **Switchable °C or °F**

Like the 2K model at left but is used with precision Type T thermocouples. Our standard Type T probes are accurate to 0.2°C. We also offer precision probes with accuracy to 0.1°C and an assortment of micro-sized needle and wire probes. Perfect for measuring tiny subjects, small volumes, foods, biological samples or pharmaceutical processes. Precision is equal or better than systems costing hundreds more. Excellent choice for process validation or research.

Specifications

	MicroTherma 2K	MicroTherma 2T
Range	-328 to 2501°F / -200 to 1372°C	-346 to 770°F / -210 to 410°C
Resolution	0.1° to 1999.9°, auto-ranging to 1° above 2000°	
Accuracy	±0.36°F / 0.2°C, ±1 digit	
Probe	Type K thermocouple	Type T thermocouple
Battery	2 x AAA, 1000 hours	
Dimensions	2.87" (W) x 5.55" (H) x 1.38" (D) / 73mm (W) x 141mm (H) x 35mm (D)	
Calibration	NIST-Traceable Certificate included	

Available in other thermocouple types.
see www.thermoworks.com/microtherma2

To Order

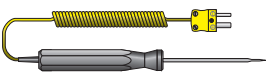
Y-221-092	MicroTherma 2K Thermometer + 303-159 Probe	$169
Y-227-193	MicroTherma 2T Thermometer + 307-159 Probe	$169
834-100	Hard Case	$20
830-205	Rubber Boot	$12
830-300	Waterproof Pouch, for Type K probes	$37
830-302	Waterproof Pouch, for Type T probes	$37

Accessories

Hard Case
834-100

Rubber Boot
830-205

Waterproof Pouch
MicroTherma 2K: 830-300
MicroTherma 2T: 830-302



Thermocouple Probes
See pages 7-12

High Accuracy Type T Probes
±0.1°C accuracy (See page 12)

Therma 3
Basic Thermocouple Meter

Limited Time: $79 each & FREE 303-159 Probe!

Shown with 303-159 Fast Response type K probe.

This professional thermocouple meter reads all type K probes. Just switch it on and read the temperature. Wall-mount bracket converts this meter into a low-cost dedicated monitor for ovens, walk-ins or test stations. The optional rubber boot protects against drop-damage. Order the waterproof pouch to make the Therma 3 totally submersible!

- **Uses interchangeable type K thermocouples**
- **Wide range, rugged, and long-lasting**
- **Low $79 price beats the competition**
- **For a limited time, purchase a Therma 3 meter and get a free Fast Response probe!**

Specifications

Range	-58 to 1832°F
Resolution	1°F
Accuracy	±1%, 1 digit
Probe	Accepts type K probes with mini connector.
Battery	9V, 200 hours
Dimensions	3.15" (W) x 5.78" (D) x 1.42" (L) 80 mm (W) x 147 mm (D) x 36 mm (L)
Calibration	NIST-Traceable Certificate included

To Order

Y-221-023	Therma 3+FREE 303-159 Probe ***WAS $95***	$79
834-100	Hard Case	$20
830-200	Rubber Boot	$13
830-300	Waterproof Pouch	$37
832-110	Wall Bracket	$12

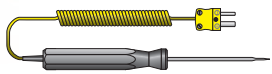
Accessories

Hard Case
834-100

Rubber Boot
830-200

Waterproof Pouch
830-300

Wall Bracket
832-110



Thermocouple Probes
See pages 7-12

Food Check
Thermocouple Meter

- **One-button operation - easy to use**
- **Includes attached type-K thermocouple**
- **Probe includes penetration tip**
- **High accuracy to ± 0.7°F for meter and probe together**
- **Includes Biomaster anti-bacterial additive**
- **Optional rubber boot for protection**

The new Food Check thermometer features higher accuracy and an easy-to-grip handheld design. The meter and probe are calibrated together to assure precision better than 0.7°F. Simple operation eliminates operator error - no extra buttons to confuse staff. The attached thermocouple is a tapered-tip general-purpose penetration probe to deliver final readings as fast as 8 seconds in semi-solids, liquids or air. Biomaster in the housing and probe handle reduce contamination. Super-long battery life.

Specifications

Range	-58 to 572°F
Resolution	0.1°F
Accuracy	±0.7°F from -58 to 390°F ±1.8°F from 390 to 572°F
Probe	1/8" dia. x 5" L
Battery	3 x AAA, 10000 hours
Dimensions	1" x 2.2" x 5" / 25mm x 56mm x 128mm
Calibration	NIST-Traceable Certificate included

To Order

Introductory Price!

221-048	Food Check with attached probe, °F	$99
830-253	Rubber Boot	$12
832-050	Wall Bracket	$15

Accessories

Rubber Boot
830-253

Wall Bracket
832-050

Ordering Probes

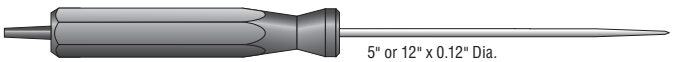
The first digit of the part number (103-159 or 303-159) indicates straight (1) or coiled (3) cable. All type K probes conform to an accuracy of ±0.5°C from 0°C to 100°C, and type T probes are accurate to ±0.2°C from -20°C to 70°C. Standard probe cable length is 39" unless otherwise indicated. Most probes are available in K type K or T type T thermocouple and are indicated in the ordering information. Max temp shown for probe sheath.

Penetration Probes

Max temp 482°F / 250°C

Fast Response Penetration Probe
Fast response reduced tip is ideal for liquids and semi solids including fish and other delicate foods. 3-4 second response!

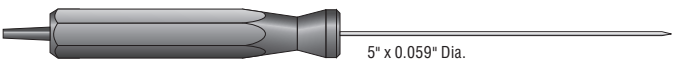
- K 103-159 or 303-159 Fast Response Penetration Probe . . . $51
- T 107-159 or 307-159 Fast Response Penetration Probe . . . $51



Max temp 482°F / 250°C

Penetration Probe
Our penetration Probe is a strong and versatile pointed insertion probe. Suitable for liquids and semi-solids. 12" length keeps operator hands away from higher temperatures.

- K 103-160 or 303-160 5" Penetration Probe. $46
- K 103-168 or 303-168 12" Penetration Probe. $55
- T 107-160 or 307-160 5" Penetration Probe $46
- T 107-168 or 307-168 12" Penetration Probe. $55



Max temp 482°F / 250°C

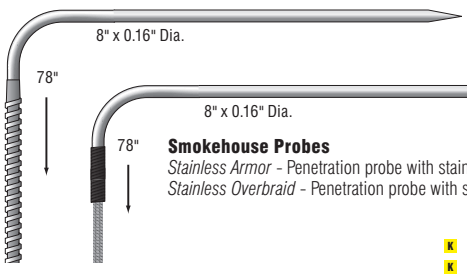
5" Penetration Probe
This general purpose probe is popular in the food industries. The 1/8" diameter shaft is swaged to a smaller diameter and given a very sharp tip for easy penetration in most semi-solids.

- K 103-100 5" Penetration Probe, Flat Cable $51
- K 303-100 5" Penetration Probe, Coiled Cable. $51
- T 107-100 5" Penetration Probe, Flat Cable $51

Max temp 482°F / 250°C

Burger Probe
The Burger Probe is designed for the busy fast food kitchen. The disc ensures the correct insertion depth (0.24") each and every time.

- K 103-745 or 303-745 Burger Probe. $56
- T 107-745 or 307-745 Burger Probe. $56



Max temp 662°F / 350°C

Max temp 482°F / 250°C

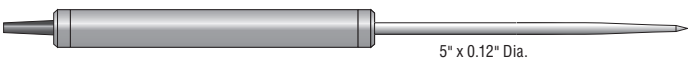
Smokehouse Probes
Stainless Armor - Penetration probe with stainless steel armor and 90 degree bend. 78" lead. Max temp 662°F.
Stainless Overbraid - Penetration probe with stainless steel overbraid and 90 degree bend. 78" lead.

- K 113-178 Stainless Armor Smokehouse Probe $65
- K 113-177 Stainless Overbraid Smokehouse Probe $52

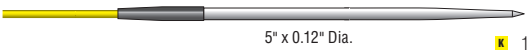
Max temp 482°F / 250°C

Mini Needle Probe
Great for very small samples, cooking meats or just speedy response times. Readings take only 2–3 seconds. Teflon Cable.

- K 113-181 Miniature Needle Probe, 39" Flat Cable $42
- K 113-182 Miniature Needle Probe, 78" Flat Cable $48
- T 117-181 Miniature Needle Probe, 39" Flat Cable $42

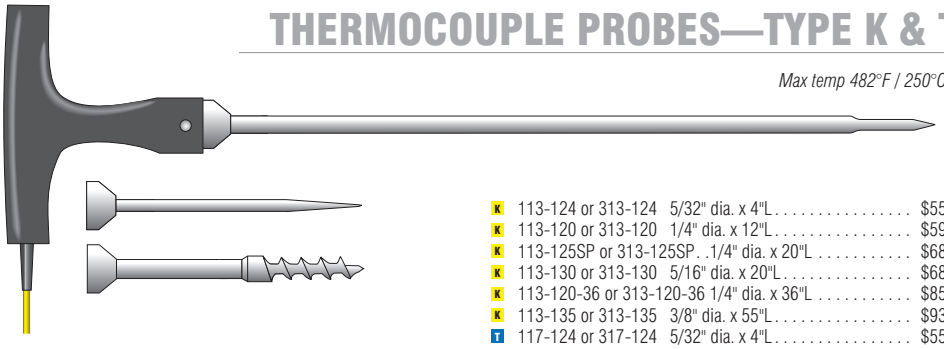


Max temp 482°F / 250°C



Oven Cooking Probe
With or without a stainless steel handle, complete with 78" Teflon high temp lead. Place in meats and close in oven. Max temp 482°F.

- K 113-170 Oven Probe with SST Handle, 78" cable $80
- K 113-173 Oven Probe, No Handle, 78" cable $33
- T 117-170 Oven Probe with SST Handle, 78" cable $80
- T 117-173 Oven Probe, No Handle, 78" cable $33

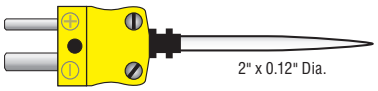


Max temp 482°F / 250°C

Heavy-Duty Penetration Probe
Available in different lengths and diameters. The larger diameter is more rigid while the smaller diameter is faster. All have reduced tips to improve response. Perfect for long reaches, deep containers, meat processing.

- K 113-124 or 313-124 5/32" dia. x 4"L $55
- K 113-120 or 313-120 1/4" dia. x 12"L $59
- K 113-125SP or 313-125SP. .1/4" dia. x 20"L $68
- K 113-130 or 313-130 5/16" dia. x 20"L $68
- K 113-120-36 or 313-120-36 1/4" dia. x 36"L $85
- K 113-135 or 313-135 3/8" dia. x 55"L $93
- T 117-124 or 317-124 5/32" dia. x 4"L $55
- T 117-120 or 317-120 1/4" dia. x 12"L $56
- T 117-121 or 317-121 1/4" dia. x 20"L $68
- T 117-122 or 317-122 1/4" dia. x 36"L $85
- K 313-175 Frozen Food Probe, corkscrew tip $99
- T 317-175 Frozen Food Probe, corkscrew tip $99

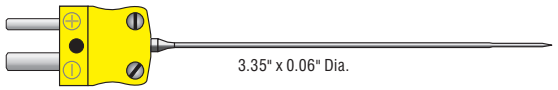
Plug-mount Probes



Max temp 392°F / 200°C

Plug-Mounted FEP "Airline" Penetration Probe
The FEP (plastic) penetration probe is designed especially for airlines and other locations where safety is paramount. Ideal for measuring liquids and semi-solids. Probe length is 2".

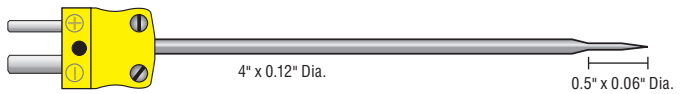
- K 113-155 FEP Plastic Airline Safe Probe, Max 392°F $24



Max temp 482°F / 250°C

Fast Response Meat Probe
Originally designed for measuring burgers, steaks and thin meat portions. An extremely fast measurement (2 second response.) An optional detachable coiled or straight extension lead is also available.

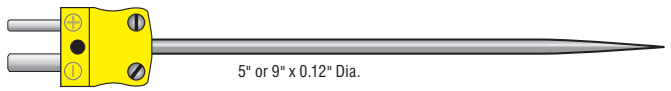
- K 113-151 Fast Response Needle Probe, Max 482°F $30



Max temp 482°F / 250°C

Fast Response Penetration Probe
We start with a 1/8" shaft and reduce the diameter to 1/16" (1.5mm) at 1/2" from the needle tip. This gives you a compromise between durability and the better speed of a needle type probe. A complete reading takes only 4 or 5 seconds.

- K 113-159 Fast Response Penetration Probe, Max 482°F. . . . $29



Max temp 482°F / 250°C

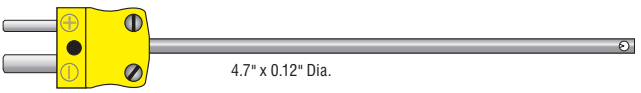
Plug-Mounted Penetration Probe
Probe tip is swaged to a smaller diameter then sharpened for fast measurements and easy penetration.

- K 113-161 5" Penetration Probe, Max 482°F $26
- K 113-167 9" Penetration Probe, Max 482°F $34

Max temp 482°F / 250°C

Plug-Mounted Surface Probe
Available with straight or right angle tips. An optional detachable coiled or straight extension lead is also available.

- K 113-045 Straight Surface Probe, Max 482°F $32
- K 113-046 Right Angle Surface Probe, Max 482°F $39

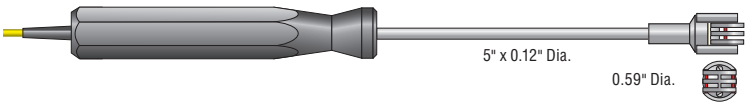


Max temp 482°F / 250°C

Plug-Mounted Air/Gas Probe
Same as the handheld air/gas probe but without the handle and cable. The shaft is mounted directly to a miniature thermocouple connector for plugging directly into a meter. An optional detachable coiled or straight extension lead is also available.

- K 113-301 Plug-Mounted Air/Gas Probe $24

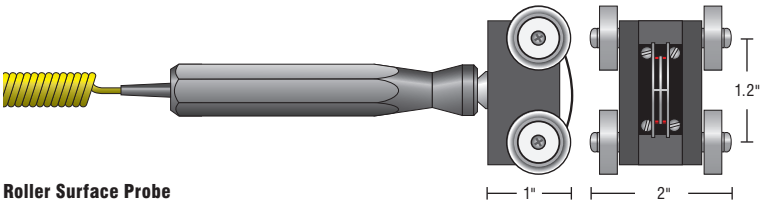
Surface Probes



Max temp 932°F / 500°C

Precision Surface Probe
This is the fastest and most accurate handheld surface probe we've seen. Readings generally take less than 5 seconds. Sensor is made from flat-spring ribbons of thermocouple material.

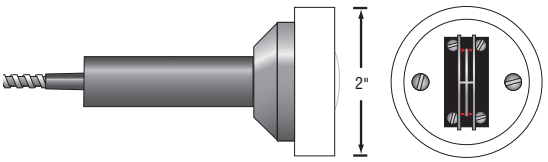
- K 103-030 or 303-030 Precision Surface Probe Straight $57
- K 103-032 or 303-032 Precision Surface Probe Rt. Angle . . . $72



Max temp 482°F / 250°C

Roller Surface Probe
Uses the flat spring thermocouple design with roller wheels to allow use on moving surfaces and rotating rollers. Choose from stainless steel or PTFE rollers. Surface speeds should not exceed 100 meters per minute.

- K 303-036 Roller Surface Probe, PTFE, coiled cable $130
- K 303-038 Roller Surface Probe, SS, coiled cable. $140



Max temp 482°F / 250°C

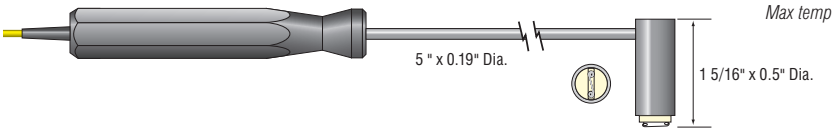
Griddle Probe
The griddle probe is a heavy duty, weighted surface probe for measuring temperatures of hot plates and grills. S.S. Armor protects cable from hot surfaces.

- K 113-018 Griddle Probe $116

Max temp 1832°F / 1000°C

Heavy Duty Surface Probe
Rugged and durable design covers a very wide range. Used in many industries for high temperature metal surfaces.

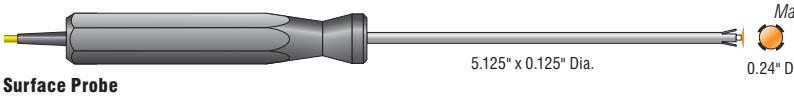
- K 103-020 Heavy Duty Surface Probe, flat cable $56
- K 303-020 Heavy Duty Surface Probe, coiled cable $56



Max temp 1832°F / 1000°C

Right Angled Heavy Duty Surface Probe
Same as above but with a bend in the shaft for hard to reach surfaces.

- K 103-028 Right Angled Heavy Duty Surface Probe, flat cable . . . $73
- K 303-028 Right Angled Heavy Duty Surface Probe, coiled cable . $73



Max temp 1112°F / 600°C

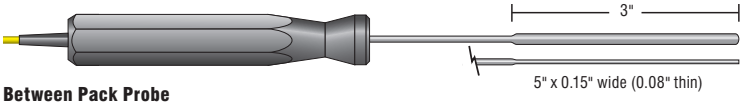
Surface Probe
This easy to use surface probe features a 1/4" copper disc that is spring loaded and fit inside a stainless steel shaft. The shaft end is cut and bent into a tripod to aid in positioning the sensor flat against a surface. The wide range makes this probe useful in a wide variety of industrial uses.

- K 103-000 Surface Probe, flat cable $52
- K 303-000 Surface Probe, coiled cable. $52

Max temp 482°F / 250°C

Ribbon Surface Probe
Features a 0.32" diameter cylindrical head with a stainless steel ribbon. The thermocouple sensor is welded to the back of the ribbon.

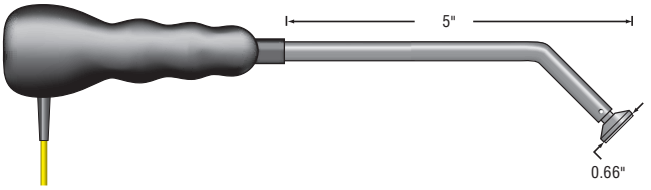
- K 103-044 Ribbon Surface Probe, flat cable $50
- K 303-044 Ribbon Surface Probe, coiled cable. $50



Max temp: 482°F / 250°C

Between Pack Probe
Rigid stainless steel sheath is flattened for insertion between packages of produce, frozen foods or other products. Slips easily between cartons or plastic bagged products. The tip is rounded to minimize accidental penetration of packaging materials.

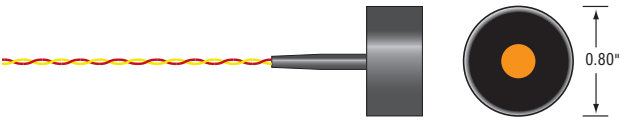
- K 103-060 Between Pack Probe, flat cable. $52



Max temp 500°F / 260°C

Bell Surface Probe
These fast response surface probes have a bell-shaped housing with a thin, flat, stainless steel measuring disc, ideal for measuring surface temperatures.

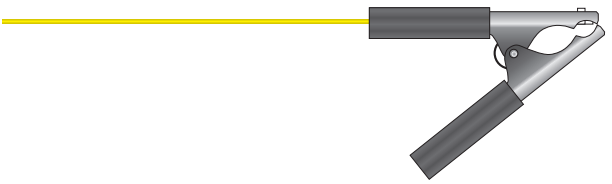
- K 113-084 or 313-084 Bell Surface Probe $65



Max temp 302°F / 150°C

Magnet Surface Probe
Easy to use magnet probe is supplied with a 39" PTFE cable. The probe is ideal for measuring the surface temperature of ferrous metals. Many applications in the HVAC, appliance service, plant engineering and equipment research or manufacturing.

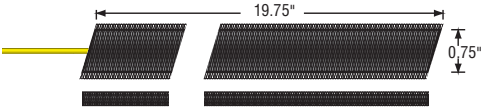
- K 113-016 Magnet Surface Probe $27



Max temp 212°F / 100°C

Pipe Clamp Probe
Ideal for measuring the surface temperature of pipes or tubing in refrigeration and HVAC systems. Can be used on pipes from 0.24" diameter up to 1.2" diameter.

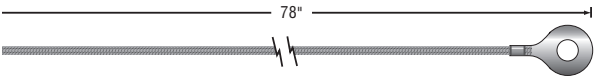
- K 113-040 Pipe Clamp Probe, flat cable $29
- K 313-040 Pipe Clamp Probe, coiled cable $29



Max temp 212°F / 100°C

Velcro Pipe Probe
Used to wrap around medium and large diameter pipes. Popular in plant engineering and HVAC.

- K 113-080 Velcro Pipe Probe $40



Max temp 662°F / 350°C

Washer Thermocouple
Easy method to measure surface temperature permanently. The thermocouple sensing junction is located on a washer with a 1/4" diameter hole for bolting to the surface to be measured. Each probe is supplied with a 78" braided stainless steel cable for durability. Order with bare lead termination for panel meters or controllers or a mini-connector for plugging in to a handheld meter.

- K 113-440 Washer Thermocouple, bare lead term. $21
- K 113-440-MC Washer Thermocouple, mini-connector. $24

Extension Leads
Extend the reach of your probe with an extension lead. Works with type K probes and meters.

- K XCK-2M-MF Coiled Type K Extension lead, 79" (2m) $19
- K XSK-3M-MF Straight Type K Extension lead, 118" (3m) . . . $16
- T XCT-2M-MF Coiled Type T Extension lead, 79" (2m) $19

Probe Wipes
Keep probe clean in food, lab or industrial use. Each wipe is pre-saturated with a broad spectrum anti-bacterial solution that is odorless and does not taint food. Compare our prices, you'll save money!

To Order

836-200	Sachet, 6 x 7.5 inch wipe, carton of 100 wipes	$16
836-022	Mini Tub, 2.75 x 5 inch wipe, single tub of 70 wipes	$6
836-020	Case of 10 Mini Tubs ***Was $49***	$39
836-052	Large Tub, 5 x 5 inch wipe, single tub of 180 wipes	$10
836-050	Case of 6 Large Tubs ***Was $51***	$41
836-300	Wall Bracket for Large Tub	$14

Wire Probes

Fine Gauge Wire Probe
Teflon (PTFE) insulated with exposed junction. Easily taped, clamped or glued to surfaces, or holes. Wire dia: 0.01", 0.024" with insulation. Very fast air, gas or general purpose.

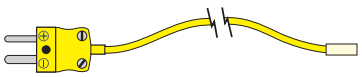
Max temp 482°F / 250°C

- K 113-362 39" Length Fine Gauge Wire Probe $12
- K 113-363 78" Length Fine Gauge Wire Probe $14
- K 113-365 10' Length Fine Gauge Wire Probe $16
- T 117-362 39" Length Fine Gauge Wire Probe $12
- T 117-363 78" Length Fine Gauge Wire Probe $14
- T 117-365 10' Length Fine Gauge Wire Probe $16

High Temp Wire
Fibreglass insulation with exposed junction. Use for ovens and appliance temps. 0.5 sec response, 0.06" diameter.

Max temp 662°F / 350°C

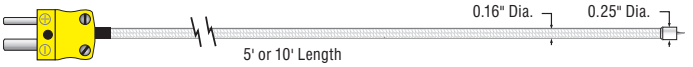
- K 113-382 39" Length High Temp Wire Probe $12
- K 113-383 78" Length High Temp Wire Probe $14
- K 113-385 10' Length High Temp Wire Probe $16
- T 117-382 39" Length High Temp Wire Probe $12
- T 117-383 78" Length High Temp Wire Probe $14
- T 117-385 10' Length High Temp Wire Probe $16



Teflon Tip
Use in dishwashers, freezers or anywhere a waterproof thermocouple is useful. Stranded wire cable with Teflon insulation and a cylindrical cap sealed over the junction. 0.06" diameter.

Max temp 482°F / 250°C

- K 113-372-T 39" Length Teflon Tip Wire Probe. $29
- K 113-373-T 78" Length Teflon Tip Wire Probe. $34
- K 113-375-T 10' Length Teflon Tip Wire Probe $39
- T 117-372-T 39" Length Teflon Tip Wire Probe. $29
- T 117-373-T 78" Length Teflon Tip Wire Probe. $34
- T 117-375-T 10' Length Teflon Tip Wire Probe $39



High Temp Flexible Ceramic Fiber-Insulated Probe
0.16" outer diameter wire x 5' L. Great probe for high temperature readings. Sensor is exposed.

Max temp 2500°F / 1371°C

- K WD-08467-64 High Temp Ceramic Fiber-Insulated Probe, 5' $44
- K WD-08467-10 High Temp Ceramic Fiber-Insulated Probe, 10' $57

High Temp Alligator Clip Oven Probe
Stainless steel overbraid protects this probe along with a fiberglass inner sheath. An alligator clip allows you to place it right where you need it. 120" lead.

Max temp 950°F / 510°C

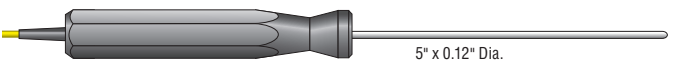
- K 8468-22 High Temp Alligator Clip Probe $59

Crocodile Clip Oven Probe (with exposed junction)
Stainless steel overbraid protects this probe along with a fiberglass inner sheath. A small clip allows you to place it right where you need it. 78" lead.

Max temp 662°F / 350°C

- K 113-041 Crocodile Clip Oven Probe. $32

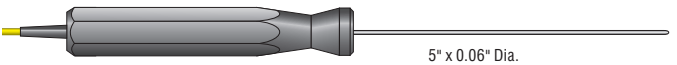
General Purpose Probes



High Temp Handheld Probe
Mineral insulated probes are ideal for wide temperature ranges. The probes can be bent, without adversely affecting performance.

Max temp 2012°F / 1100°C

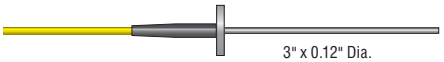
- K 103-212 or 303-212 High Temp Handheld Probe. $55



1/16" Dia. High Temp Probe
Same as above but with a 1/16" diameter sheath. This version provides faster response times and the probe is a bit easier to bend for fitting into holes or between objects.

Max temp 2012°F / 1100°C

- K 103-204 1/16" Dia. High Temp Probe, flat cable. $55
- K 303-204 1/16" Dia. High Temp Probe, coiled cable $55

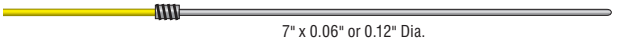


Max. temp. 482°F / 250°C

Beverage Probe
Originally designed to measure milk shake temperatures in the fast food industry. Also ideal for other hot or cold beverages. Fits neatly into the straw hole of a cup lid. The disk at the top of the probe can be used as a stop to easily ensure measurement at a uniform depth.

- K 113-225 Beverage Probe $32

Max transition temp: 212°F / 100°C
Max probe temp: 2012°F / 1100°C



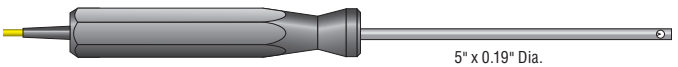
High Temp Industrial Probes
Simple, no-handle probes cover a very wide temperature range. The mineral insulated sheath can be easily bent to any shape. Available in two diameters, 1/16" or 1/8". Includes 78" of flat PVC insulated cable.

- K 113-420 1/16" High Temp Industrial Probe, bare lead term. $34
- K 113-420-MC 1/16" High Temp Industrial Probe, mini-connector $37
- K 113-425 1/8" High Temp Industrial Probe, bare lead term. . $34
- K 113-425-MC 1/8" High Temp Industrial Probe, mini-connector $37

Max transition temp: 212°F / 100°C
Max probe temp: 392°F / 200°C

Standard Industrial Probes
Popular, general purpose, rigid stainless steel probe. They are very inexpensive and can be used with handheld meters or permanently installed for long term monitoring. Available in 3/16" diameter and 1/4" diameter. Includes 78" of flat PVC insulated cable.

- K 113-444 3/16" Standard Industrial Probe, bare lead term. . . $24
- K 113-444-MC 3/16" Standard Industrial Probe, mini-connector $27
- K 113-449 1/4" Standard Industrial Probe, bare lead term. . . . $24
- K 113-449-MC 1/4" Standard Industrial Probe, mini-connector $27



Max. temp. 482°F / 250°C

Air or Gas Probe
The stainless steel shaft is open ended with a ventilation hole provided in the sides to expose the bare thermocouple sensor to the outside for faster measurements of air or gases. Ideal for environmental readings, cold storage or HVAC work.

- K 103-300 Air or Gas Probe, flat cable $46
- K 303-300 Air or Gas Probe, coiled cable $46

0.1°C Type T Thermocouple Probes

Max temp 750°F / 400°C

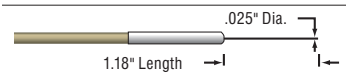
General Purpose Probe
Use for liquids, gases, semi-solids. Plastic handle with straight 3 in. S.S. shaft. Max. Temp. 400°C (750°F). Full reading in 2.5 seconds.

- T HT-1 General Purpose Probe, 3 in. shaft, 5ft. lead. $75
- T HT-2 General Purpose Probe, 9 in. shaft, 5ft. lead. $78

Max temp 750°F / 400°C

Bare-Wire Thermocouple Six-Pack
Economical solution to multi-point measurements where precision is required. Exposed, welded thermocouple bead, tough Kapton insulation, flexible, 5 ft. leads. Each thermocouple includes a mini-plug. Max. Temp. 400°C (750°F). Time constant 0.01 secs. Package of six.

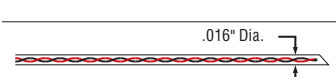
- T PT-6 Bare-Wire Thermocouple Six-Pack $119



Max temp 392°F / 200°C

Needle Microprobe
Fast-response needle probe for instant readings in tissue, semi-solids, liquids. Great for very small specimens, powders, and samples. Sealed needle tip protects thermocouple. 5 ft. lead. 0.025" dia. X 1.18" length. Time constant 0.15 secs. Full reading in less than 1 second. Max. Temp. 200°C (392°F)

- T MT 23/3 Needle Microprobe 23 ga. $149



Max temp 302°F / 150°C

Flexible Microprobe
Totally sheathed and sealed in Teflon tubing this microprobe gives instant readings. Implantable in semi-solids and tissue with supplied needle. Immersible in liquids, suitable for gases, can be taped to surfaces. Dia. 0.016". Max. Temp. 150 C (302°F). Time constant 0.08 secs.

- T IT-21 Flexible Microprobe $109

9882 Printing / Datalogging Thermocouple Meter

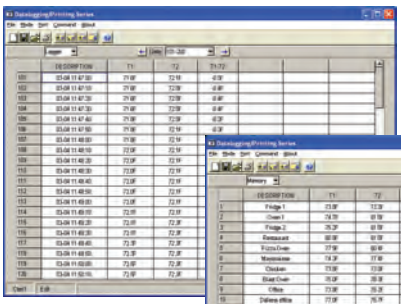
Shown with 303-159 Fast Response and 103-030 Precision Surface probes. Probes sold separately.

- **0.1°C/°F or 1°C/°F resolution**
- **Features a real time clock**
- **Range of -328 to 2498°F / -200 to 1370°C**
- **Includes built-in dot matrix printer**
- **Inputs for two thermocouple probes**
- **Reads K, J, T, R, S, and E thermocouples**
- **Stores 4,000 readings at user-selected intervals**
- **Stores 100 readings on demand with ID**
- **Includes RS-232 cable and software**

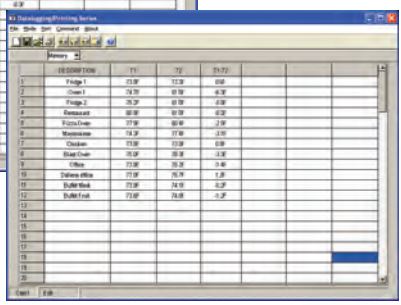
The 9882 Printing Datalogger Thermometer is a microprocessor-based printing and data-logging thermometer. The printing thermometer measures temperatures over a wide range. The unit incorporates two thermocouple probe sockets, enabling the user to connect one or two probes with selectable readings of probe 1, probe 2 and a differential temperature reading.

The 9882 can be programmed to record temperatures at intervals from once per second to every two hours, with memory to store up to 4,000 readings. It can also log the start and stop time – immediate or time delayed. The 9882 allows 99 "On-Demand" readings to be stored and downloaded. The dot matrix printer prints directly onto thermo-paper.

Software Included



Log up to 4,000 readings



Log up to 99 "on-demand" readings with location label

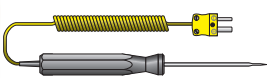
Specifications

Range	-328 to 2498°F / -200 to 1370°C
Accuracy	0.3% of reading ±1.3°F (±0.7°C)
Probe	Thermocouple types K, J, T, R, S, E, (2 channel)
Resolution	0.1°C/°F or 1°C/°F
Power	4 x AA or optional AC/DC power adapter
Battery	Approximately 50 hours
Memory	4,000 internal logging / 100 demand logging
Display	Custom LCD
Interface	RS-232, includes software & cables
Dimensions	8.2" (L) x 2.75" (W) x 2.1" (D) 208mm (L) x 70mm (W) x 53mm (D)
Weight	Less than 1 lb.

Hard case, paper, RS232 cable, software, and user manual included.

Accessories

AC Adaptor
9882-ADP



Thermocouple Probes
See pages 7-12

To Order

9882	Printing/Logging Thermometer, 1 roll of paper, RS232 lead and software, instructions, case	$359
812-081	Thermal Paper (2 rolls)	$7
9882-ADP	AC adaptor for 9882, 100-240 VAC, US plug	$18

Benchtop RTD Proportional Temperature Controllers

- Accepts 3-wire 100Ω RTD for control
- Rear panel powered 110V, 10A receptacle
- Rocker switch shows Set and Actual temps
- Variable output control from 720 to 1200 watts
- Proportional integrating control

Shown with 8117-97 probe. Probes sold separately.

Simple to set-up, this bench-top controller adds digital convenience to heated lab or process equipment. Rear panel accepts direct plug-in of 110V resistive heaters or devices. Dial-in the desired temperature, switch the display to "Actual" and the controller will apply power until the set-point is reached. Proportional, integrating control circuit with solid-state output minimizes overshoot and can deliver stability to better than ±0.1°C depending on your equipment, medium, heat loss and other variables. Scale, resolution and range depend on the model selected. Economical and simple compared to panel-mount alternatives.

Specifications

Temp Range	-148.0 to 199.9°F (-100.0 to 199.9°C) -148 to 1562°F (-100 to 850°C)
Power	115 VAC
Resolution	0.1° or 1.0°
Control Output	Three-prong receptacle rated for 115 VAC, 10A max, resistive; 720 to 1200 watts
Ambient Temp	41 to 113°F (5 to 45°C)
Display	3-1/2-digit LED 0.5"H
Control Type	PID
Dimensions	6.0" (W) x 2.5" (H) x 6.3" (D)

To Order

R600F-E	RTD Temp Controller, 0.1°F, 199.9°F	$349
R600C-E	RTD Temp Controller, 0.1°C, 199.9°C	$349
R601F-E	RTD Temp Controller, 1.0°F, 1562°F	$349
R601C-E	RTD Temp Controller, 1.0°C, 850°C	$349

*220V input models available at www.thermoworks.com

High Temp RTD Probe (8117-97) $99

Hi-Temp bendable sheath RTD probe, 932°F (500°C)
View a complete selection of air, gas, immersion, and high temperature RTD probes at www.thermoworks.com.

Combo Thermometer Infrared + Thermocouple Probe

- Fold-out type K probe
- Infrared with 5:1 optics
- Slips into a shirt pocket
- Very easy-to-use

We based this handy pocket unit on our popular Thermapen™ shape. Push one button to read infrared. Push another to read the probe. The 5:1 optics easily beat the 1:1 competition. The pointed penetration probe folds into the side of the meter for storage. The type K thermocouple gives speedy results. Switch between Max, Min, and °C/°F. Scan for immediate surface temperatures, or fold-out the probe and get an accurate internal temperature in seconds.

Specifications

Range	**IR**: -27 to 428°F / -33 to 220°C **TC**: -67 to 626°F / -55 to 330°C
Accuracy	**IR**: ±2%, or 2°C, whichever is greater **TC**: ±1% or 1°C, whichever is greater
Resolution	0.1° from -9.9 to 199.9, 1° beyond
Probe	Thermocouple
Units	Switchable °C or °F
Emissivity	Adjustable from 0.1 to 1.00
Distance/Target	5:1 (1" target diameter at 5" distance)

To Order — Limited Time Price!

814-065	Combo Thermometer, IR + Probe ***WAS $89***	$69
830-001	Protective Zipper Wallet	$8
830-110-L	Protective Leather Wallet	$16
10203	Wall Bracket	$19
CAL-IRFS	3-point NIST-Traceable Calibration Certificate	$35

Accessories

Zipper Wallet 830-001 | **Leather Wallet** 830-110-L | **Wall Bracket** 10203

CZ-IR
Cold Zone Infrared

- **Range -67 to 428°F / -55 to 220°C**
- **Best IR for cold chain applications**
- **Low ambient effect in walk-ins**
- **High accuracy to ±1.1°F / 0.6°C**

Measure temperature in walk-ins, freezers, and cold storage units with confidence with our new Cold Zone IR thermometer. With little ambient effect, you can check cold temperatures all day long without waiting for instrument equilibration. Emissivity is adjustable on the Cold Zone IR so you can point and measure just about any surface. Each unit ships with a certificate of conformance stating that we used our NIST-Traceable equipment to check each one. An optional calibration certificate is available with test data. Also included is a convenient neck lanyard and installed battery so it's ready to use right out of the package.

Specifications

Range	-67 to 428°F / -55 to 220°C
Ambient Temp.	14 to 122°F / -10 to 50°C
Resolution	0.1° between -19.9 to 199.9°, otherwise 1°
Units	Switchable °C or °F
Response	1 second
Accuracy (Tamb=23±3°C)*	±1.1°F / 0.6°C from 59 to 95°F / 15 to 35°C ±1.8°F / 1.0°C from 32 to 149°F / 0 to 65°C; ±1.5% over the rest of the range.
Distance/Target	1:1 (1" target diameter at 1" distance)
Emissivity	Adjustable from 0.05 to 1.00
Battery	(1) CR2032 Lithium Cell, included
Dimensions	1.5" (W) x 4.5" (H) x 0.9" (D) 369 mm (W) x 115 mm (H) 22 mm (D)
Weight	1.4 oz. / 40.4 g. including battery
Certificate	Certificate of Conformance included

Limited Time:
Buy 5: $39 each
Buy 10: $34 each

To Order

CZ-IR	Cold Zone Infrared Thermometer	$49
CAL-IRFS	3-point NIST-Traceable Calibration Certificate	$35

TW2
Pocket Infrared

- **6:1 optics for a smaller target spot**
- **Includes laser sighting**
- **Includes detachable neck lanyard**

Shop around but read the specs closely! This is the absolute best value in a palm-sized IR thermometer. Professional 6:1 optics give you a 1" measurement spot at a 6" distance.

Comfortably fits your palm with the trigger button on the side. Simple mode button steps through Max, Min, C/F, and adjustable emissivity. If you want a pocket unit, don't settle for less!

Specifications

Range	-67 to 482°F / -55 to 250°C
Accuracy	±2% of reading or 4°F / 2°C whichever is greater
Resolution	0.1° to 199.9°, 1° beyond
Units	Switchable °C or °F
Emissivity	Adjustable from 0.05 to 1.00
Distance/Target	6:1 (1" target diameter at 6" distance)
Battery	2 x CR2032, included
Certificate	Certificate of Conformance included

To Order

Limited Time Price!

TW2	Pocket Infrared Thermometer	$49
CAL-IRFS	3-point NIST-Traceable Calibration Certificate	$35

IRGUN

- High quality 12:1 optics
- Bright laser pointer
- Point-and-shoot simplicity
- Max temp and hold features
- Easily switch from °C to °F
- Backlit display
- Fixed 0.95 emissivity

Designed for broad general purpose use in research, industrial applications, HVAC and construction. Read temperature instantly from a distance. At 12" you can measure a 1" spot diameter. The bright pointing laser helps you aim.

Emissivity is factory set at 0.95 for simplicity in reading the broadest range of surface materials. There are no extra settings to learn. Pull the trigger for an instant reading. Hold it down for scanning or checking a changing temperature. Let go of the trigger and the last reading is held in the display. A max. temp reading is constantly visible for peak readings. It resets with the auto-off after about 15 seconds.

Specifications

Range	-58 to 750°F / -50 to 400°C
Accuracy	Tobj=15-35°C: ±1°C, Full Range: ±2%, 2°C
Repeatability	0.15°C at 25°C, 0.75°C at 80°C
Resolution	0.1° from -9.9 to 199.9, 1° beyond
Units	Switchable °C or °F
Emissivity	Fixed at 0.95
Response Time	1 second
Distance/Target	12:1 (1"target diameter at 12" distance)
Operating Temp	32 to 122°F / 0 to 50°C
Battery	2 x AAA, included
Certificate	Certificate of Conformance included

To Order

Limited Time Price!

IRGUN	Industrial Infrared Thermometer	$49
4HG	IR Belt Holster, Nylon	$9
834-740	Hard Case for IRGun	$20
CAL-IRFS	3-point NIST-Traceable Calibration Certificate	$35

Accessories

Hard Case
834-740

IR Holster
4HG

IRFS
Infrared Food Safety Thermometer

- High quality 12:1 optics
- Bright laser pointer
- Point-and-shoot simplicity
- Max temp and reading hold features
- Handy button for switching from °C to °F
- Range to 536°F / 280°C

Limited Time:
Buy 5: $63 each

The 12:1 optics mean the I.R.F.S. reads a smaller spot diameter at a greater distance. Just pull the trigger and point the laser at your subject. The display updates instantly and locks the reading when you release the trigger. The Max function records the highest temp during the scan. No complicated buttons or settings. Emissivity is preset to 0.97 for more accurate general use in food and frozen food applications. Now look at the price. Why pay someone else $99—or more— for less thermometer?

Specifications

Range	-67 to 536°F / -55 to 280°C
Accuracy	Tobj=32 to 150°F: ±2°F, Full Range: 1.5%
Resolution	0.1° from -9.9 to 199.9, 1° beyond
Units	Switchable °C or °F
Emissivity	Fixed at 0.97
Response	1 Second
Distance/Target	12:1 (1" target diameter at 12" distance)
Operating Temp	32 to 122°F / 0 to 50°C
Battery	2 x AAA, included
Certificate	Certificate of Conformance included

To Order

IRFS	Infrared Food Safety Thermometer	$79
4HG	IR Belt Holster, Nylon	$9
834-740	Hard Case for IRFS	$20
CAL-IRFS	3-point NIST-Traceable Calibration Certificate	$35

Accessories

Hard Case
834-740

IR Holster
4HG

IRK
Infrared + Type K Thermocouple

- High quality 11:1 optics
- Read up to 1999°F with an optional thermocouple
- Industrial applications, food processing, food service
- Adjustable emissivity
- Variety of type K probes available

Shown with 303-159 Fast Response probe.

Limited Time:
FREE 303-159 Probe Included!

The I.R.K. gives you two instruments for the price of only one. You also get Max, Min, Hold, Diff, Avg, Hi Alarm, Lo Alarm, a bright laser, display backlight and a °C/°F button. Even with all this, the I.R.K. is so easy to use. Just press the mode key once-each to step through these features. You probably won't even read the manual. If you want one meter for everything, get this one.

Specifications

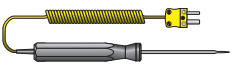
Range	**IR**: -76 to 932°F / -60 to 500°C **TC**: -76 to 1999°F / -60 to 1400°C
Accuracy	**IR**: Tobj=15-35°C: ±1°C, Full Range: ±2%, 2°C **TC**: ±0.8%, 1°C
Resolution	0.1° from -9.9 to 199.9, 1° beyond
Probe	Accepts type K probes with mini conn.
Units	Switchable °C or °F
Emissivity	0.1 to 1, adjust in 0.01 increments
Response	1 Second
Distance/Target	11:1 (1" target dia. at 11" distance)
Operating Temp.	32 to 122°F / 0 to 50°C
Battery	2 x AAA, included
Certificate	Certificate of Conformance included

To Order

Y-IRK	Infrared + Type K Thermocouple Input	$99
4HG	IR Belt Holster, Nylon	$9
834-740	Hard Case for IRK and Probes	$20

Accessories

Hard Case
834-740



Thermocouple Probes
See pages 7-12

IRT
Infrared + Type T Thermocouple

- High quality 11:1 optics
- Highest accuracy available in an infrared thermometer
- Perfect for foods, pharmaceuticals and research
- Adjustable emissivity for multiple surface materials

Shown with 307-159 Fast Response probe.

Limited Time:
FREE 307-159 Probe Included!

Start with the features of the I.R.F.S. but add better accuracy, a type T thermocouple and adjustable emissivity and you'll get the I.R.T. Combo Meter. The mode button steps through each of the features on the I.R.T. You get max, min, diff, and avg readings. You can also set High Low alarms to give a gentle beep if your reading does not meet the thresholds you set.

Specifications

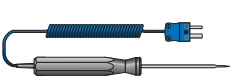
Range	**IR**: -67 to 536°F / -55 to 280°C **TC**: -76 to 662°F / -60 to 350°C
Accuracy	**IR**: Tobj=15-35°C: ±0.6°C, Full Range: ±1.5% **TC**: -5° to 65°: ±0.5°C, above 65°: ±1%
Resolution	0.1° from -9.9 to 199.9, 1° beyond
Probe	Accepts type T probes with mini conn.
Units	Switchable °C or °F
Emissivity	0.1 to 1, adjust in 0.01 increments
Response	1 Second
Distance / Target	11:1 (1" target diameter at 11" distance)
Operating Temp.	32 to 122°F / 0 to 50°C
Battery	2 x AAA, included
Certificate	Certificate of Conformance included

To Order

Y-IRT	Infrared + Type T Thermocouple Input	$119
4HG	IR Belt Holster, Nylon	$9
834-740	Hard Case for IRT and Probes	$20

Accessories

Hard Case
834-740



Thermocouple Probes
See pages 7-12

IR-Pro
Professional Infrared Thermometer

- 50:1 distance to spot ratio
- Dual laser for accurate target sighting
- -76°F to 1832°F
- Includes type K socket and probe
- Accuracy to ±1.5% of reading

Limited Time:
FREE 303-159 Probe Included!

Shown with 303-159 Fast Response probe.

The IR-Pro gives you a small measurement spot even at a distance. The 50:1 ratio means you can measure an air vent or steam trap on a warehouse ceiling. The dual lasers pinpoint the outer diameter of the target you're measuring. Great for electrical panels, bearings, food processing or hundreds of other applications. Reads type K thermocouple probes. Functions include Min/Max, Lock, Hi/Low alarms, and differential. A professional instrument at an incredible price!

Specifications

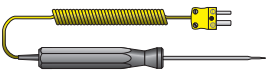
Range	**IR**: -76 to 1832°F / -60 to 1000°C **TC**: -83.2 to 1999°F / -64 to 1400°C
Accuracy	**IR**: Tobj=15 to 35°C; Tamb=25°C: ±1°C / greater of 1.8°F, ±1.5% of reading or 1.5°C / 2.7°F **TC**: greater of ±1% of reading or 1°C / 1.8°F
Resolution	0.1° from -9.9 to 199.9°
Units	Switchable °C or °F
Emissivity	Adjusts from 0.1 to 1 in 0.01 increments
Distance/Target	50:1 (1" target diameter at 50" distance)
Operating Temp.	32 to 122°F / 0 to 50°C
Battery	2 x AAA, included
Dimensions	8.0" x 7.7" x 1.8" 203.3mm x 197.0mm x 47.0mm
Certificate	Certificate of Conformance included

To Order

Y-IR-Pro	Professional Infrared Thermometer + Fast Response Type K Probe (303-159)	$229
STACSC	IR Holster	$19
CAL-IRFS	3-point NIST-Traceable Cal Certificate	$35
CAL-IR5M	5-point NIST-Traceable Cal Certificate	$65

Accessories

IR Holster
STACSC



Thermocouple Probes
See pages 7-12

Close-Focus Infrared

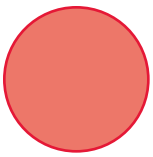
- 0.7 inch (18mm) measurement distance
- 0.1 inch (2.5mm) spot size
- Max temp and hold features
- Easily switch from °C to °F
- Adjustable emissivity
- Great for electronics test or biological applications

Limited Time:
Now $159

Actual measurement spot

Close-Focus IR measurement spot - 0.1"

Smallest target diameter of competition - 0.75"



Specifications

Range	-67°F to 428°F / -55°C to 220°C
Operating Temp.	32 to 122°F / 0 to 50°C
Resolution	Thermometer: 0.2°C/0.5°F Stop Watch: 1 sec.
Accuracy (Tamb=23±3°C)	-55 to 0°C; ±(2+0.05/deg)°C; above 0°C; ±2°C (4°F) or ±2% of the reading, whichever is greater
Measurement Dist.	0.7"/18mm, with a 0.1"/2.5mm spot size
Emissivity	0.95 default; adjustable to 1 in 0.05 increments
Features	Clock; room temp. reading while power is off; °C/°F switchable; MIN/MAX/LOCK; stop watch
Battery	2 x AAA, 15 hours (auto power off after 15 seconds)
Dimensions	6.7"(W) x 1.5" (H) x 1.0" (D) 170 mm (W) x 38 mm (H) x 25 mm (D)
Weight	4.4 oz. / 125 g. including batteries
Certificate	Certificate of Conformance included

Take infrared measurements of tiny objects. Dual laser pinpoints target area at 0.1" (2.5mm) spot size. Large LCD display with ambient temperature and built-in clock. Range to 428°F (220°C) with accuracy to ±1.0°F (0.6°C).

To Order

CF-IR	Close-focus Infrared Thermometer ***Was $199***	$159
830-001	Protective Zipper Wallet	$8

IR-Pro-USB
Professional IR with USB

NEW!

Shown with 103-159 probe, not included.

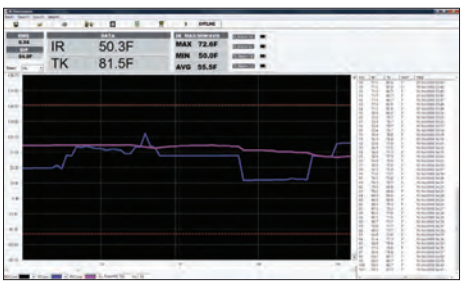
- **USB interface for real-time data capture**
- **On-board data memory for up to 100 stored readings downloadable to the PC**
- **150ms response time (infrared)**
- **Type K thermocouple socket**
- **Dual laser sighting for precision targeting**
- **°F / °C switchable**
- **Emissivity adjustable from 0.10 to 1.0**
- **MAX/MIN/AVG/DIF temperature displays**
- **Backlit LCD display**
- **Programmable high and low alarms with audible alert**
- **50:1 distance-to-spot ratio**

The IR-USB-Pro is capable of non-contact (infrared) temperature measurements at the touch of a button. The built-in dual laser increases target accuracy while the backlight LCD and handy push-buttons combine for convenient ergonomic operation.

This unit transmits the IR and Type K measurement data to the PC via USB in real-time. In addition, the thermometer is capable of storing up to 100 data locations on board the unit. These readings can be recalled and displayed on the LCD display and later downloaded to the PC.

Specifications

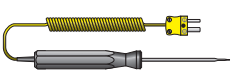
Range	**IR**: -58 to 2192°F / -50 to 1200°C **TC**: -58 to 2498°F / -50 to 1370°C
Accuracy	**IR:** ± 5.4°F / 3°C from -58 to 68°F / -50 to 20°C ±1.0% ±1.8°F / 1.0°C from 68 to 932°F / 20°C to 500°C ±1.5% from 916°F to 2192°F / 500°C to 1200°C **TC:** ±1.5% ± 5°F / 3°C from -50 to 1000°C / -58 to 1832°F ±1.5% ± 3.6°F / 2°C from 1000 to 1370°C / 1832 to 2498°F
Resolution	0.1°F / 0.1°C <1000; 1°F / 0.5°C >1000
Units	Switchable °C or °F
Emissivity	Default 0.95; adjusts from 0.1 to 1 in 0.01 increments
Response	150ms (infrared)
Distance/Target	50:1 (1"target diameter at 50" distance)
Operating Temp.	32 to 122°F / 0 to 50°C
Battery	1 x 9V, included
Dimensions	7.8" (H) x 5.4" (W) x 1.9" (D) 199 mm(H) x 138 mm(W) x 50 mm(D)
Weight	11.2 oz. / 317.5g. including battery
Certificate	Certificate of Conformance included



Store IR and type K Thermocouple measurements in real-time directly to your PC. Also download up to 100 data points stored in the IR-Pro-USB's memory.

Hard case, mini-tripod, basic type K thermocouple, software, USB cable, and battery included.

IR Holster
STACSC



Thermocouple Probes
See pages 7-12

To Order — Introductory Price!

IR-Pro-USB	Professional Infrared and Type K Thermometer with USB Interface, software included	$299
STACSC	IR Holster	$19
CAL-IRFS	3-point NIST-Traceable Calibration Certificate	$35
CAL-IR5M	5-point NIST-Traceable Calibration Certificate	$65

RT817E
Thermo-Hygrometer

- **Large digit display for humidity and temperature**
- **Max/Min memory**
- **Ice point alert**
- **Outdoor temperature display**
- **°F/°C switchable**
- **Foldaway stand**
- **Mounting keyhole**

The new RT817E displays indoor and outdoor temperature as well as indoor humidity. Each unit ships with an external temperature sensor with 10 feet of cable to measure temperature in a remote location.

The RT817E mounts on the wall or on the desk. With large 1 inch digits you'll have no trouble reading the display.

The RT817E records Min and Max temperatures as well as an ice point alarm for use with the remote probe. Set the alarm to ON and you'll be alerted when the outside temperature drops below 32°F (0°C).

Specifications

Range	20 to 99% RH Indoor: 32 to 122°F / 0°C to 50°C Outdoor: -58 to 158°F / -50°C to 70°C
Accuracy	RH : ±3%at 77°F / 25°C Temp: ±2°F / 1°C
Resolution	1%; 0.1°
Response	10 seconds
Battery	1 x AAA
Sensor Wire Length	9.8' / 3m
Display	1" digits 3.1" (W) x 2.6" (H) 79mm (W) x 66mm (H)
Dimensions	3.9" (W) x 4.3" (H) x 0.8" (D) 98 mm (W) x 110 mm (H) x 2mm (D)

To Order

RT817E	Thermo-Hygrometer with Remote Probe	1-4: $39 ea.	5-up: $29 ea.
CAL-RH1PT	NIST-Traceable RH Calibration Certificate		$35

RT819
Pocket Temperature/Humidity Pen

- **Dual display for humidity and temperature**
- **Max/Min memory**
- **°F/°C switchable**
- **Large digit display**
- **Pen shaped design**
- **Pocket clip**
- **3% accuracy**
- **Handy HVAC tool**

Designed to slip into a shirt pocket, this professional tool delivers easy-to-read display of temperature and relative humidity. Great for HVAC, lab applications, manufacturing environments, and field work. Max and Min function stores high and low readings. At this price and this convenient size, get one for each of your staff.

Specifications

	Temperature	Humidity
Range	32 to 122°F / 0 to 50°C	20 to 95% in 59 to 122°F Range 25 to 95% in 41 to 122°F Range 30 to 95% in 32 to 122°F Range
Accuracy	±2°F / 1°C	±3%RH at 77°F / 25°C
Resolution	0.1°	1%
Response	6 seconds	
Battery	1 x AAA	
Display	2" (W) x .56" (H) 52 mm (W) x 14 mm (H)	
Dimensions	0.9"(W) x 5.4" (H) x 0.8" (D) 23 mm (W) x 138 mm (H) x 20 mm (D)	

To Order

RT819	Pocket TH Pen	$35
CAL-RH2PT	NIST-Traceable RH 2-point Calibration Certificate	$65

Series I and Series II Temperature and Humidity Data Loggers

- **Waterproof rating to IP66/67 (series II)**
- **Stores 4,000 readings**
- **Alarm LEDs on logger**
- **Remote start**
- **2 year battery life**
- **Range to 257°F**
- **Accuracy to ±0.9°F (±0.5°C)**
- **Single software suite for all loggers**

A ThermoWorks exclusive, the ThermaData Series loggers perform in the harshest conditions. Our new Series II loggers now include a waterproof rating to IP67 so strong jets of water and high humidity are no problem making factory data logging now possible.

Excellent for agriculture, fisheries, and food processing.

830-270 Silicone Boot ($8)
Optional silcone boot
Series II ThermaData Loggers

For high temperature use, select a logger with an external probe with a range to 257°F. Each probe includes a convenient penetration tip for use with meats, packaging, and other hard to measure applications. Choose a model with an LCD display so you'll always know the last stored value.

There's more. Each logger has a 2-year battery life, LED alarm indicators so you'll know if your limits have been breached, a magnetic key for remote start, field calibration adjustment, and an easy-to-use software suite for all loggers. If you're looking for simplicity and high value in a data logger look no further.

Limited Time Series I Price: $49 each

Loggers with No Display

ThermaData	Series I	TB	TBF	TB1F
Price	White 293-105, Black 293-701 $49	295-001 $99	295-101 $109	295-011 $119
Description	Series I data logger, 1 channel internal, not waterproof	Series II temp logger, 1 channel: internal	Series II temp logger, 1 channel: external fixed probe	Series II temp logger, 2 channel: 1 internal & 1 external fixed probe
Range	-40 to 183°F (-40 to 85°C)	-40 to 185°F (-40 to 85°C)	Int: -40 to 185°F (-40 to 85°C) Ext: -40 to 257°F (-40 to 125°C)*	Int: -40 to 185°F (-40 to 85°C) Ext: -40 to 257°F (-40 to 125°C)*
Accuracy	±1.8°F (±1.0°C)	±0.9°F (±0.5°C)	±0.9°F (±0.5°C)	±0.9°F (±0.5°C)
Waterproof Rating	na	IP66/67	IP66/67	IP66/67
Capacity	2,048 stop when full, or overwrite	4,000 readings	4,000 readings	4,000 readings (2,000/channel)
Battery Life	5 years	2 years	2 years	2 years

*Cable Temp: 5 to 122°F (-15 to 105°C)

Loggers with No Display

ThermaData	TB2F	TBC	TB1C	TB2C	HTB
Price	295-111 $129	295-501 $139	295-051 $149	295-551 $209	295-061 $139
Description	Series II temp logger, 2 channel: 2 external fixed probes	Series II temp logger, 1 channel external removable probe	Series II temp logger, 2 channel: 1 internal & 1 external removable probe	Series II temp logger, 2 channels 2 external removable probe	Series II humidity logger, 2 channel: 1 internal temp, 1 internal humidity
Range	-40 to 257°F (-40 to 125°C)*	-40 to 257°F (-40 to 125°C)*	Int: -40 to 185°F (-40 to 85°C) Ext: -40 to 257°F (-40 to 125°C)*	-40 to 257°F (-40 to 125°C)*	-4 to 185°F (-20 to 85°C) 0 to 100%RH
Accuracy	±0.9°F (±0.5°C)	±0.9°F (±0.5°C)	±0.9°F (±0.5°C)	±0.9°F (±0.5°C)	±0.9°F (±0.5°C) ±2%RH
Waterproof Rating	IP66/67	IP66/67	IP66/67	IP66/67	na
Capacity	4,000 readings (2,000/channel)	4,000 readings	4,000 readings (2,000/channel)	4,000 readings (2,000/channel)	8,000 readings (4,000/channel)
Battery Life	2 years	2 years	2 years	2 years	2 years

*Cable Temp: 5 to 122°F (-15 to 105°C)

Loggers with Display

ThermaData	TD	TDF	TD1F	TD2F
Price	296-001 $109	296-101 $129	296-011 $139	296-111 $149
Description	Series II temp logger, 1 channel: internal	Series II temp logger, 1 channel: external fixed probe	Series II temp logger, 2 channel: 1 internal & 1 external fixed probe	Series II temp logger, 2 channel: 2 external fixed probes
Range	-40 to 185°F (-40 to 85°C)	Int: -40 to 185°F (-40 to 85°C) Ext: -40 to 257°F (-40 to 125°C)*	Int: -40 to 185°F (-40 to 85°C) Ext: -40 to 257°F (-40 to 125°C)*	-40 to 257°F (-40 to 125°C)*
Accuracy	±0.9°F (±0.5°C)	±0.9°F (±0.5°C)	±0.9°F (±0.5°C)	±0.9°F (±0.5°C)
Waterproof Rating	IP66/67	IP66/67	IP66/67	IP66/67
Capacity	4,000 readings	4,000 readings	4,000 readings (2,000/channel)	4,000 readings (2,000/channel)
Battery Life	2 years	2 years	2 years	2 years

*Cable Temp: 5 to 122°F (-15 to 105°C). Body limited to 185°F (85°C).

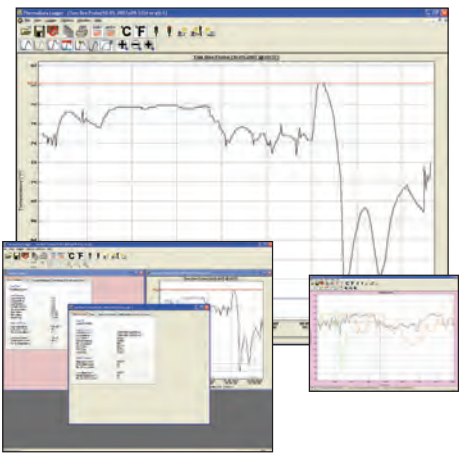
Loggers with Display

ThermaData	TDC	TD1C	TD2C	HTD
Price	296-501 $159	296-051 $169	296-551 $229	296-061 $159
Description	Series II temp logger, 1 channel external removable probe	Series II temp logger, 2 channel: 1 internal & 1 external removable probe	Series II temp logger, 2 channels 2 external removable probe	Series II humidity logger, 2 channel: 1 internal temp, 1 internal humidity
Range	-40 to 257°F (-40 to 125°C)*	Int: -40 to 185°F (-40 to 85°C) Ext: -40 to 257°F (-40 to 125°C)*	-40 to 257°F (-40 to 125°C)*	-4 to 185°F (-20 to 85°)C 0 to 100%RH
Accuracy	±0.9°F (±0.5°C)	±0.9°F (±0.5°C)	±0.9°F (±0.5°C)	±0.9°F (±0.5°C) ±2%RH
Waterproof Rating	IP66/67	IP66/67	IP66/67	na
Capacity	4,000 readings	4,000 readings (2,000/channel)	4,000 readings (2,000/channel)	8,000 readings (4,000/channel)
Battery Life	2 years	2 years	2 years	2 years

*Cable Temp: 5 to 122°F (-15 to 105°C)

ThermaData Software Suite & Cradle

- **Convenient viewing or printing of time and temperature graphs**
- **Data display in table format**
- **Overlay multiple logs onto same chart**
- **Export data to text file format (Excel)**
- **Calibration wizard for programming offsets**
- **Start, stop and program logger settings**
- **Fast download via any USB port**
- **Alarm indication with alarm log file**
- **Alarm log includes number and duration of alarms**
- **Use with all ThermaData loggers**
- **Data log summary information includes Min, Max, Avg, Start, Stop, Duration, and Alarms**
- **Compatible with XP, Vista, Win 7 (32 & 64 bit)**



When you use our ThermaData loggers, you'll only need one software package, our ThermaData Logger Software Suite for Windows. It will conveniently and quickly download your logged data to your PC for storage, printing, and viewing. Overlay multiple logs for thermal mapping applications or time testing. Overlaid charts are matched by reading number for convenience.

USB Cradle

To Order

293-104	USB Cable & Software (Series I)	$89
293-804	ThermaData USB Cradle & Software (Series II)	$89

LogMaster Series

- **Single software suite for over 25 different loggers**
- **Models for external thermocouples and RTDs**
- **Wireless to 1 mile with extender**
- **Real-time monitoring with email alerts**
- **High accuracy**
- **Range to 2000°F (with thermocouple)**
- **Optional NIST-Traceable calibration certificate**
- **1-year battery life on most models**

Select a wireless logger with an external probe and collect data from anywhere in the factory. Extend wireless capabilities to a remote area up to a mile away with an RF extender kit.

For high temperature or special applications, plug a type K thermocouple into a logger and measure ovens, sterilizers, hot plates, or any other processing application. Select from mini-needle thermocouples to high temperature wire types.

The LogMaster software lets you export data, overlay graphs, re-calibrate loggers in the field, and much more.

Temperature & Humidity Loggers

LogMaster	TransiTemp-RH Multi	RHTemp101	Temp101	Temp 100
Price	$115	$199	$79	$109
Description	Temp & humidity logger, reusable, push start 90 day battery	Temp & humidity logger, high capacity	Temp logger, internal	Temp logger, internal with push button start
Range	-4 to 158°F (-20 to 70°C) 0 to 90%RH	-40 to 176°F (-40 to 80°C) 0 to 95%RH	-40 to 176°F (-40 to 80°C)	-40 to 176°F (-40 to 80°C)
Accuracy	±0.9°F from 14 to 104°F (±0.5°C from -10 to 40°C) ±5%RH	±0.9°F (±0.5°C) ±3%RH	±0.9°F (±0.5°C)	±0.9°F (±0.5°C)
Memory	8,191/channel	21,845/channel	32,767	32,767

Temperature & Humidity Loggers

Wireless & 4/8 Channel Loggers

LogMaster	TC4000	RTDTemp101	RFTemp101A	RFTC4000A
Price	$199	$199	$199	$249
Description	Temp logger, external Thermocouple	Temp logger, external RTD	Wireless temp logger, internal	Wireless temp logger, external Thermocouple
Range	Type K: -418 to 2,501°F (-250 to 1,372°C)	-328 to 1562°F (-200 to 850°C)	-22 to 158°F (-30 to 70°C)	Type K: -418 to 2,501°F (-250 to 1,372°C)
Accuracy	±0.9°F (±0.5°C)	to ±0.09°F (to ±0.05°C)	±0.9°F (±0.5°C)	±0.9°F (±0.5°C)
Memory	16,383/channel	21,845	8,191	4,095/channel

Wireless & 4/8 Channel Loggers

LogMaster	RFRHTemp101A	RFRTDTemp101A	Quad- & OctRTD	Quad- & OctTemp
Price	$269	$449	$599 / $999	$599 / $999
Description	Wireless temp & humidity, internal	Wireless temp logger, external RTD	Temp logger, 4- or 8-channel, external RTD	Temp logger, 4- or 8-channel, external Thermocouple
Range	-22 to 158°F (-30 to 70°C) 0 to 100%RH	-328 to 1562°F (-200 to 850°C)	-328 to 1562°F (-200 to 850°C)	Type K: -418 to 2,501°F (-250 to 1,372°C)
Accuracy	±0.9°F (±0.5°C) ±3%RH	to ±0.09°F (to ±0.05°C)	±0.18°F (±0.1°C)	±0.9°F (±0.5°C)
Memory	5,461/channel	5,461	21,845/10,992	26,214/14,563

Rugged/ Submersible Loggers

LogMaster	MicroTemp	TCTemp1000	HiTemp150FP-TSK
Price	$199	$299	$549
Description	Submersible logger, mini	Submersible logger, removable Thermocouple	Hi temps, thermal shield w/ external probe
Range	-40 to 176°F (-40 to 80°C)	Type K: -418 to 2,501°F (-250 to 1,372°C)	-40 to 482°F (-40 to 250°C)
Accuracy	±0.9°F (±0.5°C)	±0.9°F (±0.5°C)	±0.9°F (±0.5°C)
Memory	32,767	16,383/channel	32,767

Rugged/ Submersible Loggers

LogMaster	Temp1000P	Temp1000S	Cryo-Temp
Price	$399	$499	$199
Description	Submersible logger, 7" fixed probe, RTD	Submersible logger, 1" fixed probe, RTD	Splash-proof logger, for low temperatures
Range	-148 to 500°F (-100 to 260°C)	-40 to 302°F (-40 to 150°C)	-122.8 to 95°F (-86 to 35°C)
Accuracy	±0.9°F (±0.5°C)	±0.9°F (±0.5°C)	±1.8°F (±1°C)
Memory	32,767	32,767	32,767

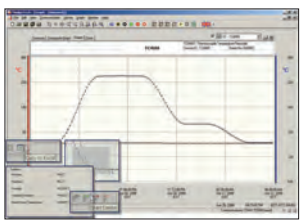
ThermoVault Loggers

LogMaster	ThermoVault 1000P	ThermoVault	Quad/Oct ThermoVault
Price	$1499	$999	$1500/$1699
Description	Submersible logger, 7" probe, RTD, SST enclosure	Oven temp logger, Max temp 752°F (400°C)	Oven temp logger, 4 or 8 channels
Range	-148 to 500°F (-100 to 260°C)	-40 to 752°F (-40 to 400°C)	-4 to 662°F (-20 to 350°C)
Accuracy	±0.9°F (±0.5°C)	±0.9°F (±0.5°C)	±0.9°F (±0.5°C)
Memory	32,767	32,767	500,000+/channel

LogMaster Software

- **Real time recording via Serial, USB or Wireless**
- **Real time alarm notification**
- **Send email or phone text for alarms**
- **Real time auto save to text file**
- **Multiple graph overlay for profiling**
- **Display multiple engineering units**
- **Data summary statistics**
- **Digital calibration of loggers**
- **Data recall and export**
- **Customizable graphs**
- **Quick links to start and stop logging**

IFC200 Software & Cable Kit



LogMaster software suite interfaces with all LogMaster loggers.

To Order

IFC200	USB Cable & LogMaster Software	$119
RFC101A	Wireless Interface & LogMaster Software	$199
IFC300	Cryo-Temp dock & LogMaster Software	$89

LogTag Transit Recorder

- Hi/low alarms with indicator
- Push button log start
- Real-time clock for time stamp recording
- IP65 waterproof rating
- Range from -40 to 185°F
- 8,000 reading memory capacity
- 2 to 3 year battery life
- Supports FDA 21 CFR Part II
- Inspection marking during log

Specifications

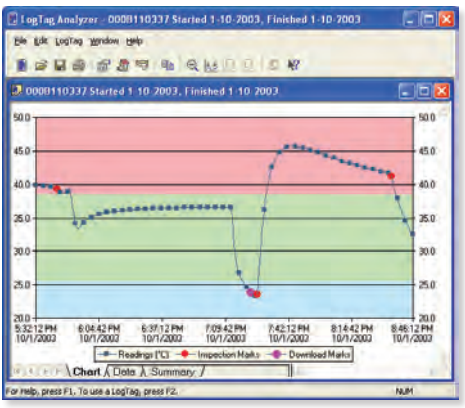
Range	-40 to 185°F / -40 to 85°C
Accuracy	<±0.5°C for -20 to 40°C. <±0.7°C for -20 to -30°C & 40 to 60°C <±0.8°C for -30 to -40°C & 60 to 80°C
Resolution	< 0.1°C for -40 to 40°C, < 0.2°C for 40 to 80°C
Capacity	8,000 readings
Sample Rate	Adjustable, 30 sec. to several hours
Waterproof Rating	IP65
Battery	3V lithium, replaceable by technician, 2 to 3 years typical
Dimensions	3.4" (H) x 2.1" (W) x 0.33" (D) 86mm (H) x 54.5mm (W) x 8.6mm (D)
Weight	1.2 oz. /35 g.

Record temperature data for easy download to your PC with our new Logtag temperature logger. Program a start time or simply press start on the logger and record up to 8,000 readings with date and time stamp for quick download to your PC.

With a built-in alarm indicator you can quickly see if an alarm condition exits during your recording session. With an IP65 waterproof rating, and at about the size of a credit card, these handy loggers can record temperatures from -40 to 185°F in the harshest environments.

During logging sessions inspection marks can be created at the press of a button. The software displays the inspection marks, and summary data is created for data recorded between marks.

Download data with high speed via USB interface cradle which includes Logtag Analyzer software. The software supports displaying and printing data in chart, list, and summary form and allows multiple charts to be overlaid for comparison. It also supports FDA 21 CFR part 11 digital signatures.


LogTag Analyzer - 0000110337 Started 1-10-2003, Finished 1-10-2003
File Edit LogTag Window Help
0000110337 Started 1-10-2003, Finished 1-10-2003
Chart Data Summary
For Help, press F1. To use a LogTag, press F2.
NUM

Display and print data in chart, list and summary form. Save to files, overlay multiple logs, automatic emailing of files, and supports FDA 21 CFR part 11. Inspection and download marks are displayed.

Download logged data to your PC with the USB cradle.

Call for volume discounts!

To Order

TRIX-8	LogTag Transit Logger	$34
TRIX-8-10	LogTag Transit Logger, 10-pack	$299
LTI/USB	LogTag USB Interface Cradle / Software	$60

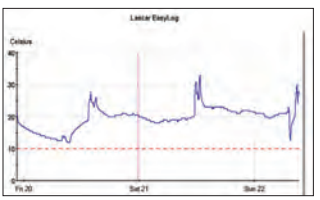
USB Loggers

- **Records temperature, humidity, and dew point**
- **Built-in USB connection (no cables)**
- **Low cost, simple to use**
- **LED alarm indication**
- **Waterproof (see chart for modelst)**
- **Software included in price**

Download directly to your PC. No extra cables, dongles, or docks to buy. And the software is included! With loggers starting at just $59, our USB series make great entry-level data loggers. The software is so easy to setup and so simple that anyone can log and record data in minutes. Order now and you can be logging data tomorrow.

	TW-USB-1	TW-USB-1-PRO Stainless Steel	TW-USB-2 / TW-USB-2-LCD	TW-USB-2+ / TW-USB-2-LCD+	TW-USB-RT	TW-USB-TC / TW-USB-TC-LCD
Price:	$59	$149	TW-USB-2: $82 TW-USB-2-LCD: $89	TW-USB-2+: $110 TW-USB-LCD-2+: $119	$75	TW-USB-TC: $81 TW-USB-TC-LCD: $99
Input:	Temperature	Temperature	Temperature, Humidity, Dewpoint; LCD Display (on LCD unit)	Temperature, Humidity, Dewpoint; LCD Display (on LCD unit)	Real-time Temperature, Humidity, Dewpoint	Temperature: K, J, or T Type Thermocouple; LCD Display (on LCD unit)
Operating Range:	-31°F to 176°F -35°C to 80°C	-40°F to 257°F -40°C to 125°C	Temp: -31°F to 176°F -35°C to 80°C Humid: 0% to 100%	Temp: -31°F to 176°F -35°C to 80°C Humid: 0% to 100%	Temp: +14°F to 140°F -10°C to 60°C Humid: 0% to 100%	+14°F to 104°F -10°C to 40°C
Measurement Range:	-31°F to 176°F -35°C to 80°C	-40°F to 257°F -40°C to 125°C	Temp: -31°F to 176°F -35°C to 80°C Humid: 0% to 100%	Temp: -31°F to 176°F -35°C to 80°C Humid: 0% to 100%	Temp: +14°F to 140°F -10°C to 60°C Humid: 0% to 100%	-328°F to 2372°F / -200°C to 1300°C for K type depending on thermocouple used.
Accuracy:	±2°F / ±1°C	Temp: ±0.4°F / ±0.2°C	Temp: ±1°F / ±0.5°C Humid: ±3% Dewpoint: ±2°F / ±1.1°C	Temp: ±0.6°F / ±0.3°C Humid: ±2% Dewpoint: ±2°F / ±1.1°C	Temp: ±3°F / ±1.5°C Humid: ±4.5% Dewpoint: ±5°F / ±2.5°C	±2°F / ±1°C
Sample Rate:	User selectable 10s to 12h	User selectable 1s to 12h	User selectable 10s to 12h	User selectable 10s to 12h	1 second fixed	User selectable 1s to 12h
Battery/ Battery Life:	3.6V 1/2AA / 1 year life				N/A - powered by USB port. Must remain connected.	3.6V 1/2AA / 6 month life
Resolution:	1°F / 0.5°C	0.2°F / 0.1°C	Temp: 1°F / 0.5°C Humid: 0.5%	Temp: 1°F / 0.5°C Humid: 0.5%	Temp: 1°F / 0.5°C Humid: 0.5%	1°F / 0.5°C
Alarm Status:	Red/Green LED				Email, text, audible PC alerts	Red/Green LED
Interface:	USB					
Memory:	16,328 readings	32,510 readings	16,328 readings per channel		Stores 7 days to PC file	32,510 readings
Logging Start:	Delay or immediate	Delay or immediate	Delay or immediate, and push-button on LCD unit	Delay or immediate, and push-button on LCD unit	Real time	Delay or immediate, and push-button on LCD unit
IP Rating	IP67	IP67	IP67 (TW-USB-2 only)	IP67 (TW-USB-2+ only)	na	na

Plugs directly into USB port. No cables, dongles, or docks.



Software is included. Very easy to use.

Plug any type K, J, or T thermocouple into the TW-USB-TC logger to extend the range to 2,000°F. See pages 8-12

Wireless and Network-Ready Loggers

- Wireless and water resistant models with display
- Network ready models (wireless or ethernet)
- Email and text alerts in real-time
- Temperature and humidity
- RTD model (RTR-52Pt) logs to 1100°F
- Stores up to 16,000 readings
- LED alarm indication
- Optional handheld wireless collector
- Optional AC power and extended batteries
- New CFR 21 part II compliant software (optional)

TR-5 Series (non-wireless)

For data logging in harsh environments with a convenient temperature display select a TR-5 Series logger. Choose from one channel internal (TR-51S) or one channel external (TR-52S) with optional probes for measurements to 311°F. With an IP Rating to IP67 and IP64 respectively, you can measure anywhere in the factory, greenhouse, or outdoors.

RTR-5 Series (wireless)

Wireless data logging with a water resistant housing, convenient display, external thermistor or RTD probes, and humidity as an option has never been easier. Connect any RTR-5 logger to a network with our RTR-5W network hub and get email or text alerts in real-time anywhere in the world (requires a global IP address). Harsh environments are no problem as well at temperatures beyond 1000°F. With optional AC adapter and extended battery packs you'll always be logging. The wireless handheld data collector (RTR-57U) gathers up to 250 logs. Thousands of units can connect in on the same wireless receiver.

Model	TR-51S	TR-52S	RTR-51	RTR-52	RTR-52Pt	RTR-53
Price	$129	$149	$179	$199	$229	$299
Channels	1 Internal	1 External (optional probes below)	1 Internal	1 External (optional probes below)	1 External RTD (3-wire) (optional probes below)	1 External Temp 1 External Humidity
Range	-40 to 176°F (-40 to 80°C)	-76 to 311°F (-60 to 155°C)	-40 to 176°F (-40 to 80°C)	-76 to 311°F (-60 to 155°C)	-327 to 1,112°F (-199.9 to 600°C)	32 to 131°F (0 to 55°C) 10 to 95%RH
Accuracy	±0.9°F (±0.5°C)	to ±0.9°F (±0.5°C)	±0.9°F (±0.5°C)	to ±0.9°F (±0.5°C)	to ±0.9°F (±0.5°C)	to ±0.5°F (±0.3°C) ±5%RH
IP Rating	IP67	IP64	IP67	IP64	IP64	IP64
Capacity	16,000 readings	16,000 readings	16,000 readings	16,000 readings	16,000 readings	8,000 readings/channel
Battery Life	4 years max.	4 years max.	6 months	6 months	6 months	6 months

TR-52 & RTR-52 Optional Probes

Model	Description	Range	Price
TR-5220	General Purpose Probe, -50 to 200°C	-76 to 311°F (-60 to 155°C)	$73
TR-5420	High Temperature Probe, -200 to 600°C	-76 to 311°F (-60 to 155°C)	$91

RTR-52Pt Optional Probes

Model	Description	Accuracy	Price
TR-8100-4	General Purpose RTD Probe, -50 to 200°C	±0.27°F @ 32°F (±0.15°C @ 0°C)	$99
TR-8120-8	High Temperature RTD Probe, -200 to 600°C	±0.27°F @ 32°F (±0.15°C @ 0°C)	$179

TR-7U Series (USB download)

To monitor temperature, humidity, and barometric pressure. Start and stop recording from front panel. Download via USB. Optional COM port for downloading to handheld data collector (RTR-57U).

TR-7W Series (network ready: 10/100 ethernet)

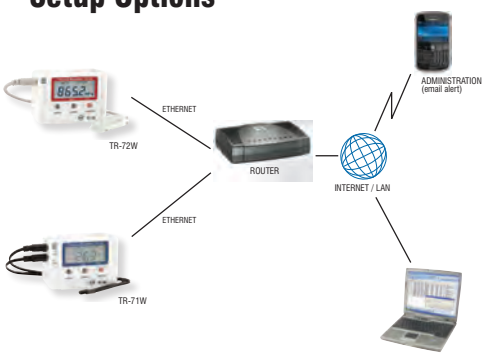
Connects directly to network. View temperature and humidity in web browser. Two channels for temperature (TR-71W) or temperature and humidity (TR-72W). Plug into an AC outlet with a built-in data backup battery. -

Models	TR-71U	TR-72U	TR-73U	TR-71W	TR-72W
Price	$249	$299	$359	$479	$529
Channels	2: 1 int. and 1 ext. or 2 external	2: 1 temperature 1 humidity	3: 1 temperature, 1 humidity, 1 barometric pressure	2 external temperature	2: 1 external, 1 humidity
Range	Int: 14 to 140°F Ext: -40 to 230°F Opt: -76 to 311°F (call for opt. probes)	Int: 14 to 140°F Ext: 32 to 122°F RH: 10 to 95%	Int: 14 to 140°F Ext: 32 to 122°F RH: 10 to 95% 750 to 1100hPa	Ext: -40 to 230°F Opt: -76 to 311°F (call for opt. probes)	Ext: 32 to 122°F RH: 10 to 95%
Accuracy	to ±0.9°F (±0.5°C)	to ±0.9°F (±0.5°C) ±5%RH	to ±0.9°F (±0.5°C) ±5%RH; ±1.5hPa	to ±0.9°F (±0.5°C)	to ±0.9°F (±0.5°C), ±5%RH
Capacity	8,000 readings/channel	8,000 readings/channel	8,000 readings/channel	8,000 readings/channel	8,000 readings/channel
Power	1 year battery	1 year battery	10 month battery	AC adapter with data backup battery	AC adapter with data backup battery

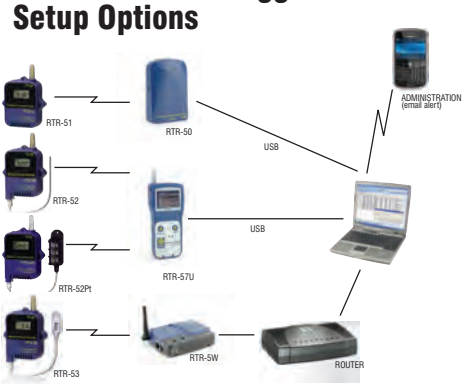
Data Collectors

Data Collectors	TR-50U Communications Cradle	RTR-57U Handheld Data Collector	RTR-50 Wireless Receiver/Transmitter	RTR-5W Wireless Network Base Station
Price	$299	$419	$349	$579
For Models	TR-51S, TR-52S	RTR-5 Series loggers	RTR-5 Series loggers	RTR-5 Series loggers
PC Conn.	USB	USB	USB	Ethernet
Logger Conn.	Optical	Wireless	Wireless	Wireless
Software	Included	Included	Included	Included
Other	20s download of full data	Stores 250 logs, 256K readings, 300 foot range, 2 AAA batteries, Auto-off, Optional AC.	AC power or 2AA batteries, 300 feet per repeater up to 250 units, Monitor in real-time with email alerts, Auto-download on timed interval.	Built-in web server for public access, Monitor and setup via internet browser, Email server for warning emails, Real-time monitoring and auto-downloads.

TR-71/72W Network-Ready Setup Options



RTR-5 Wireless Logger Setup Options



RTR-61 Wireless HACCP Recording Thermometer

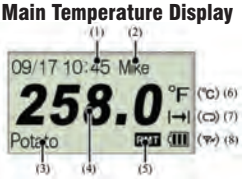
- **Stores HACCP data electronically**
- **Stores 1,800 readings to memory**
- **Transmits data to PC or network hub**
- **IP64 dust/water resistant**
- **Range to 455°F (235°C)**
- **Add fixed wireless loggers to same network**

The new RTR-61 is a handheld recording thermometer with wireless capability. Now you can record anywhere in the restaurant or factory and send the data wirelessly to your PC or network hub.

Record date, time, operator, temperature, and food item with every data point for your HACCP program. No more notebooks or manual records. No more guessing, fudging, or reworking reports. The data is stored electronically and easily saved in text format for easy reporting.

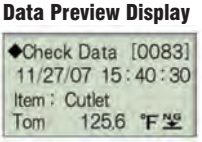
RTR-61	Specifications
Price	$449
Range	-13 to 455°F (-25 to 235°C)
Accuracy	to ±0.9°F (±0.5°C)
Capacity	1,800 data readings
Battery	AAA x 2; Alkaline, NiCd, NiMH
Interface	Wireless or Optical
Water Resistance	IP64 (dust/splash resistant)
Data Collectors	RTR-61SK $359; RTR-61SK-W $359

Main Temperature Display



1 - Current date and time
2 - Operator
3 - Food Item name
4 - Current temperature
5 - Remote mode
6 - Temperature units
7 - Recording mode
8 - Battery status / wireless comms

Data Preview Display



Shows date, time, reading, number, food item, operator, temperature, and pass/fail result.

HIGH ACCURACY PDA PROBE ±0.05°C

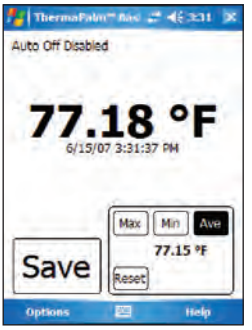
PDA Reference Probe & Data Logger

PDA probe shown with Recon 200X (sold separately).

- **Accuracy to ±0.05°C**
- **Probe includes software (PDA sold separately)**
- **Download readings directly to Excel**
- **Connects to Symbol, iPAQ, or Recon PDA**
- **Range to 212°F, perfect for food measurements**
- **Optional software logs up to 100,000 readings downloadable to Excel**

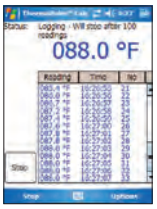
Connect a ThermoWorks high accuracy PDA Probe to your compatible PDA device and turn it into a high accuracy reference system with accuracy to ±0.05°C. We include the software that allows you to record readings downloadable directly to Excel with date, time, operator, and measuring location with pass/fail results.

An ideal tool for every lab, the high accuracy PDA Probe can be used to check the performance of all of your thermometers. A NIST-Traceable calibration certificate is included with test data that confirms its performance. You'll spend thousands on a system that does half what our PDA probe can do. Call us today to find out if your PDA is compatible with one of our probes, and get more out of your PDA investment.



PDA Main Screen

ThermaPalm Lab Datalogging Software (optional)



- **Record 100,000 readings**
- **Store up to 100 logs**
- **Downloads to Excel file**
- **Set high and low alarm limits**
- **Multiple start and stop modes**

Turn your high accuracy PDA Probe into a data logger and store 100,000 data points from up to 100 logs to your PDA. At your next Activesync, your data is transferred to your PC and ready to import into Excel. Set your recording interval from 1 second to 4 minutes with custom start and stop modes. Review your data on the PDA in graphical or tabular format before you synchronize.

Resolution is user selectable from 1.0 to 0.01° depending on probe. With our high accuracy probe, accuracies of ±0.05°C can be achieved for use in calibration work. Put your PDA to use with our temperature probes and data logging software.

NIST TRACEABLE

Specifications

Range	-76 to 392°F / -60 to 200°C
Accuracy	±0.05°C (±0.09°F) from –50 to 150°C (-58 to 302°F)
Resolution	0.01°F or °C
Probe	1/8" (∅) x 5" (L)
Response	15-20 seconds in liquid
Calibration	NIST-Traceable Certificate included

Call for PDA compatibility

To Order

294-120	High Accuracy PDA Probe for RECON 200X with software	$259
294-130	High Accuracy PDA Probe for iPAQ 2210 with software	$259
294-140	High Accuracy PDA Probe for DELL AXIM X50/X51 with software	$259
294-110	High Accuracy PDA Probe for SYMBOL PPT8800 PDA with software	$259
294-295	Thermapalm Lab Datalogging Software for Windows Mobile	$199

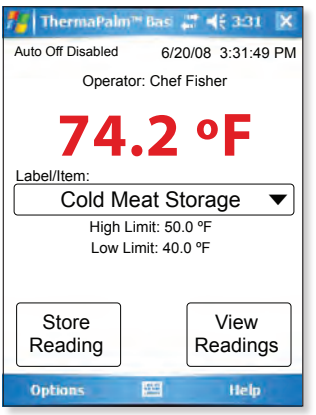
PDA Probe and HACCP Temperature Recording System

PDA probe shown with Recon 200x PDA (sold separately).

- **Probe includes software (PDA sold separately)**
- **Download readings directly to Excel**
- **Store readings with location, user, and pass/fail limits**
- **Connects to Symbol, iPAQ, or Recon PDA**
- **Range to 212°F, perfect for food measurements**

Finally, there's a HACCP recording system that anyone can set up and use. Simply type in your list of users and food items with their danger zone limits on the PC and sync it to your PDA.

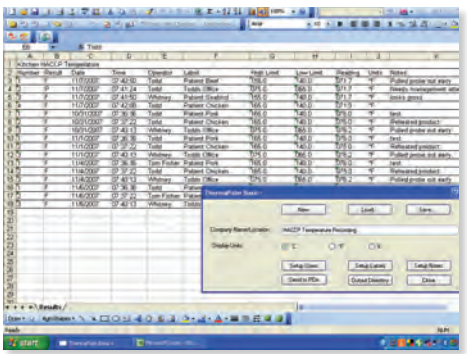
The PDA probe gives you the accurate temperature and all you need to do is attach that to your list of food items. It's that simple. The next time you sync the PDA you'll have a report of all readings and documented pass/fail results. No IT department needed!



PDA Main Screen

Software Features

- **Stores date, time, operator**
- **Stores food item, temp, pass/fail**
- **Visual and audible alert to user in "danger zone"**
- **Quick PC utility stores profiles**
- **Downloads directly to Excel via Active Sync**
- **Saves files to any pre-set directory or network drive**
- **Stores by day, week, month, PDA**
- **Manages multiple PDAs**



Download directly to Excel

Specifications

Range	-4 to 212°F / -20 to 100°C
Accuracy	±0.9°F / 0.4°C
Resolution	0.1°F or °C
Probe	1/8" (∅) x 4" (L), reduced tip
Response	5 to 6 seconds
Calibration	NIST-Traceable Certificate included

Call for PDA compatibility

To Order

294-221	Fast Response PDA Food Probe for RECON 200X with software	$179
294-231	Fast Response PDA Food Probe for iPAQ 2210 with software	$179
294-241	Fast Response PDA Food Probe for DELL AXIM X50/X51 with software	$179
294-211	Fast Response PDA Food Probe for SYMBOL PPT8800 PDA with software	$179
294-271	Fast Response PDA Food Probe for SYMBOL MC70 PDA with software	$278
294-280	Fast Response PDA Food Probe for SYMBOL MC9000 PDA with software	$179

EcoTemp Alarm Thermometer

- Audible & Visual High/Low Alarms
- Max/Min, Hold & °C/°F Functions
- One penetration probe is included
- Interchangeable probes

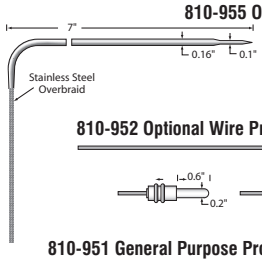
Buy 5: $29 each

General purpose probe included (810-951). Rubber boot optional.

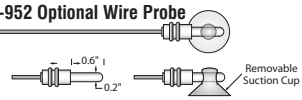
The EcoTemp is a truly easy-to-use, handheld thermometer with a really big display. You get 0.1° resolution, °C/°F switchability, max/min, and hold button. And that's not all! We've included a high/low alarm. After an alarm sounds, it will stop again when the temperature returns to acceptable limits. One handheld probe is included with each thermometer. Get the protective PVC boot to extend the life of your thermometer.

Optional Probes

810-955 Optional Oven Probe



810-952 Optional Wire Probe



810-951 General Purpose Probe (included)

Specifications

Range	-58 to 392°F / -50 to 200°C
Resolution	±0.1°F or °C
Accuracy	±1.8°F / 1°C from -58 to 302°F / -50 to 150°C
Sensor	Thermistor
Units	Switchable °C or °F

To Order

810-960	EcoTemp Alarm Thermometer	$39
810-955	Oven Penetration Probe (optional)	$9
810-952	Wire Probe (optional)	$9
810-951	Spare Penetration Probe	$9
830-215	Protective PVC Boot, Black	$9
836-052	Probe Wipes—Large Tub of 200	$10

TW8060
2K Two-Channel Thermocouple With Alarm

Available July 2010

- Programmable hi/low alarms
- Ideal oven alarm
- Backlit display
- Audible alarm
- Simple button operation

Our new 2K is a simple-to-use 2-channel thermocouple alarm thermometer with convenient backlit display. An ideal cooking thermometer, the 2K can monitor your food item and the oven temperature simultaneously and alert you when it's done. Also records Max and Min temperatures of both channels so you'll know what limits were reached during your process. A handy tool in a small, compact package.

Specifications

Range	-328 to 2372°F / -200 to 1300°C
Resolution	Below 1000°C: 0.1° / Above 1000°C: 1°
Accuracy	-200 to -100°C: ±0.2% reading + 1°C -100 to 1300°C: ±0.1% reading + 0.7°C -328 to -148°F: ±0.2% reading + 2°F -148 to 2372°F: ±0.1% reading + 1.4°F
Probe	Type K Thermocouples
Battery	3 x AAA
Dimensions	4.8" (L) x 2.4" (W) x 1.2" (H) 121mm (L) x 60mm (W) x 30mm (H)

Accessories

Thermocouple Probes
See pages 7-12

TR-1
Optional tripod

To Order

TW8060	2K, Two-Channel Thermocouple with Alarm (probes sold separately, pg 7-12)	$69
TR-1	2K Tripod	$9
832-050	Wall Bracket	$15

6032
Long Stem
Thermometer (8")

RT304
Water Resistant
Min/Max
Thermometer

RT600B
Water Proof/Dishwasher Safe
Thermometer

RT610B
T-Shaped Water Proof
Thermometer

RT301
Low-Cost
Thermometer

Most low-cost digital thermometers have fairly short probes. Our 6032 Long-Stem model features an 8" probe that is perfect in lab work, food production, and countless applications where you need longer immersion depth.

This RT304 is a popular water-resistant thermometer which stands up to wet hands and messy environments. Great for general purpose temperature measurements anywhere.

We improved our popular RT600 with a high temperature rubber front panel seal and increased the upper range. It's water resistant at higher temperatures so dishwasher use is no problem. With MIN/MAX features.

The RT610 is designed for easy forcing into meats and semi-solids. It's tough and water resistant.

The RT301 a tiny, pocket-sized thermometer with big digits! You won't have to squint or hold this one close.

Call for volume pricing!

Specifications

	6032	RT304	RT600B	RT610B	RT301
Range	14 to 392°F -10 to 200°C	-58 to 392°F -50 to 200°C	-58 to 392°F -50 to 200°C	-58 to 392°F -50 to 200°C	-58 to 302°F -50 to 150°C
Resolution	±0.1°	±0.1°	±0.1° to 199.9°	±0.1°	±0.1°
Accuracy	±1.8°F / ±1°C	to ±1.8°F / ±1°C	to ±1.8°F / ±1°C	±1.8°F / ±1°C	to ±1.8°F / ±1°C
Probe	0.137" (∅) x 8" (L)	0.137"(∅) x 4.75" (L)	0.137" (∅) x 4.8" (L)	0.197" (∅) x 4.9" (L), 0.137" (∅)	0.125" (∅) x 5" (L)
Units	Switchable °C or °F	Switchable °C or °F	Switchable °C or °F	Switchable °C or °F	Switchable °C or °F
Operating Range	32 to 122°F / 0 to 50°C	32 to 122°F / 0 to 50°C	32 to 190°F / 0 to 88°C	32 to 122°F / 0 to 50°C	32 to 122°F / 0 to 50°C
Battery	2 x LR44	1 x LR44	1 x A76	1 x LR44	1 x LR44
Response	10 to 15 seconds	10 to 15 seconds	10 to 15 seconds	10 to 15 seconds	10 to 15 seconds
Water Resistance	IP65	IP67	IP65	IP66/67	na

To Order

Quantity:	6032	RT304	RT600B	RT610B	RT301
1	$19	$19	$19	$19	**1-9:** $14
5-up	$15	$15	$15	$15	**10-up**: $11

SUPER-FAST POCKET THERMOMETERS

RT600C
Super-Fast Pocket Thermometer

6 Seconds!

- 5-6 seconds
- -40 to 302°F range
- Dishwasher safe to 190°F
- IP65 rating
- On/Off switch
- Max/Min function
- °C/°F switchable

Buy 5: $19 each

We've improved our popular RT600B with a thinner probe tip for a faster response. It's also water resistant at higher temperatures so dishwasher use is no problem. MIN/MAX features record peak dishwasher temperature. Includes probe cover and pocket clip. You'll find a lot of look-a-likes, but none that can match the durability of our RT600C.

Specifications

Range	-40 to 302°F / -40 to 150°C
Accuracy	As high as ±1.8°F/±1°C, depending on temp.
Response	Approx. 6 seconds from ambient to 32°F
Resolution	0.1° between -19.9 to 199.9, otherwise 1°
Operating Range	32 to 190°F (0 to 88°C)
Water Resistance	IP65
Battery	1 x A76
Dimensions	7.9" (L) x 0.9" (H) x 0.8" (D) 203mm (L) x 24mm (H) 20mm (D)

To Order

RT600C	Super-Fast Pocket Thermometer	$24

RT301WA
Super-Fast Pocket Thermometer

6 Seconds!

- 5-6 seconds
- Adjustable calibration
- IP65 water resistant
- On/Off switch
- °C/°F switchable
- -40°F to 302°F Range

Buy 5: $24 each

A big digit display, water resistance, and calibration adjustment are three big reasons to try our new RT301WA. Add to that a new, thinner fast-response probe and you have a thermometer great for HACCP programs and daily use.

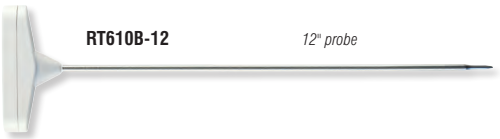
Specifications

Range	-40 to 302°F / -40 to 150°C
Accuracy	As high as ±1.8°F / ±1°C, depending on temp.
Response	Approx. 6 seconds from ambient to 32°F
Resolution	0.1° between -19.9 to 199.9, otherwise 1°
Operating Range	32 to 122°F (0 to 50°C)
Water Resistance	IP65
Battery	1 x A76
Dimensions	1.9" (L) x 1.3" (H) x 1.1" (D) 49mm (L) x 35mm (H) 28mm (D), excluding probe

To Order

RT301WA	Super-Fast Pocket Thermometer	$29

RT610B-12 & RT610B-24
Long-Stem Digital Thermometers



- **IP66/67 waterproof rating**
- **12" or 24" heavy duty SST probe**
- **MIN/MAX memory**
- **HOLD feature**
- **Ideal for meat processing, composting**
- **°C/°F switchable**

Specifications

Range	-58 to 392°F / -50 to 200°C
Accuracy	±1.8°F / ±1°C over full range
Response	Approx. 15 to 20 seconds in liquid
Resolution	0.1° between -19.9 to 199.9, otherwise 1°
Battery	1 x LR44
Probe RT610B-12	0.197" (∅) x 12" (L), 0.137" (∅) at tip 5mm (∅) x 305mm (L), 3.5mm (∅) at tip
Probe RT610B-24	0.236" (∅) x 24" (L), 0.137" (∅) at tip 6mm (∅) x 610mm (L), 3.5mm (∅) at tip

To Order

RT610B-12	12" Long-Stem Digital Thermometer	$39
RT610B-24	24" Long-Stem Digital Thermometer	$49

Pocket Dial Thermometers

PT1438

PT1005

PT220

PT1438: 50 to 550°F, 1.75" dial thermometer, 8 x 1/8 inch stem. 5°F divisions, ±1% accuracy, recalibrateable, pocket clip.

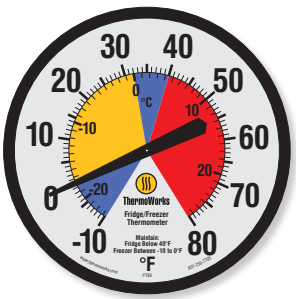
PT1005: 25 to 125°F, 1" dial thermometer, 5 x 1/8 inch stem. 1°F divisions, ±1% accuracy, recalibrateable, pocket clip.

PT220: 0 to 220°F, 1" dial thermometer, 5 x 1/8 inch stem. 2°F divisions, ±1% accuracy, recalibrateable, pocket clip.

To Order

PT1438	Dial Thermometer 50 to 550°F	1-4: $19 ea.	5-99: $16 ea.	100-up: Call
PT1005	Dial Thermometer 25 to 125°F	1-4: $6 ea.	5-99: $5 ea.	100-up: $3 ea.
PT220	Dial Thermometer 0 to 220°F	1-4: $6 ea.	5-99: $5 ea.	100-up: $3 ea.

PT80
12" Fridge/Freezer Dial Thermometer



Simple and easy to use, this thermometer is perfect for walk-in freezers and refrigerators. Just hang it on the wall and it's easily readable from almost anywhere in your walk-in. Order several for different locations. Color-coded temperature zones show if temperatures are out of range.

- **Large 12" diameter face**
- **Color-coded temperature zones**
- **Great for walk-in freezers and refrigerators**
- **Hangs on wall**
- **Dual scale °C & °F**

Specifications

Range	-10 to 80°F / -23 to 26°C
Size	12" (∅) / 305mm (∅)
Type	Bimetal

To Order

PT80	12" Fridge/Freezer Thermometer	$19

RT8100
Fridge/Freezer Alarm with Duration Counter

- Dual display for fridge and freezer
- Programmable alarm temperatures
- Alarm duration counter
- LED and audible alarms
- Magnetic attachment
- Max and Min function

Our new RT8100 is a fully programmable two channel fridge/freezer alarm thermometer. Insert one probe in the freezer and one in the fridge, set the high and low temperature limits, and the RT8100 alarms when your product is outside your limits. Each channel can be set to alarm at any temperature from -40°F to 158°F.

Choose an audible or LED alarm. After 30 minutes in alarm, a duration counter will tell you the elapsed time since the alarm condition began. Min/Max will also indicate the highest and lowest temperatures reached during your monitoring cycle.

Specifications

Range	-40°F to 158°F / -40°C to 70°C
Accuracy	±1.8°F / 1°C
Resolution	0.1°
Default Alarm Limits (user programmable)	Fridge: 32 to 46.4°F / 0 to 8°C Freezer: -40 to 0°F / -40 to 18°C
Response	10 seconds
Alarm Resolution	0.1°
Alarm Duration	99 hrs 59 min (starts after 30 min)
Battery	2 x AAA, included
Probe Cord Length	39.4 / 1,000 mm
Display	3.5" (W) x 0.63" (H) 90mm (W) x 16mm (H)
Dimensions	5.3" (W) x 1.77" (H) x 0.9"(D) 135mm (W) x 45mm (H) x 23mm (D)

To Order

RT8100	Dual Channel Fridge/Freezer Alarm Thermometer	$29

RT8100MAT
Max/Min Recording Thermometer

- Records Time & Date of MAX/MIN
- Dual Channels
- Range: -58 to 158°F / -50 to 70°C
- Programmable High and Low Alarms
- LED and Audible Alarms
- Magnetic Attachment

New 2-channel alarm thermometer records the high and low temperatures with a time and date stamp. Monitor critical temperatures without the need for expensive and complicated data loggers. The audible alarm function allows you to program high and low limits of your choice. The max/min function independently records the peak and valley temperatures reached at both sensors with date and time. Use this unit for critical fridge/freezer temps, indoor/outdoor, weather applications, gardening, agriculture, greenhouses, composting, labs, research applications and storage monitoring. No computers required!

Specifications

Range	-58 to 158˚F / -50 to 70˚C
Accuracy	±1.8°F / 1°C
Resolution	0.1°
Response	10 seconds
Alarm Resolution	1°
Time Accuracy	±3 seconds per day
Time/Date Format	12-hour and month/day/year
Calendar Period	2000 to 2099
Battery	2 x AAA, included
Probe Cord Length	39.4" / 1,000 mm
Display	3.5" (W) x 0.63" (H) 90mm (W) x 16mm (H)
Dimensions	5.3" (W) x 1.77" (H) x 0.9" (D) 135mm (W) x 45mm (H) x 23mm (D)

To Order

RT8100MAT	Dual Channel Fridge/Freezer Alarm Thermometer	$29

RT801
Digital Alarm Thermometer

- **Range -58 to 158°F**
- **°C / °F Switchable**
- **Display Backlight**
- **Settable High/Low Alarm**
- **Min/Max Memory**
- **Internal and External Temperatures**

The new RT801 is perfect for monitoring refrigerators, freezers, coolers, incubators, chambers, aquariums—anywhere you want to make sure an acceptable temperature range is maintained. Use it as a safety alarm or to notify you when a desired target temperature is reached.

If your alarm limits are exceeded, an audible beep sounds for 5 seconds every minute. During the alarm condition a visual indicator flashes on the screen. If the temperature returns to normal, the visual and audible alarm will stop. The Max/Min function will continue to show you the highest and lowest temperatures reached so you will know that an alarm has occurred.

Specifications

Internal Range	14 to 122°F / -10 to 50°C
External Range	-58 to 158°F / -50 to 70°C
Accuracy	±1.8°F / 1°C
Resolution	0.1°
Display	1.9" (W) x 0.8" (H) 48mm (W) x 21mm (H)
Alarms	High and low alarms settable in 1.8°F / 1.0°C increments
Battery	1 x AAA
Response	10 seconds
Probe cord length	39.4" / 1,000mm
Dimensions	2.9" (W) x 2" (H) x 0.6" (D) 73mm (W) x 52mm (H) 15mm (D)

To Order

RT801	Fridge/Freezer Alarm Thermometer	$19

RT8101 & RT8101E
Solar Thermometer

RT8101

RT8101E

- **Solar powered**
- **No batteries required**
- **External sensor (RT8101E only)**
- **-58 TO 158°F**
- **MIN/MAX memory**
- **°F / °C switchable**

Install a digital temperature readout anywhere in just seconds! Solar powered so there's no battery changes or power connections. The RT8101 features an internal sensor for room temperature while the RT8101E has an external probe to install in a chamber or fridge. Easily mounted, professional appearance. Max/Min and °C/°F buttons. Big digits are easy to see across the room.

Specifications

Internal Range	32 to 122°F / 0 to 50°C
External Range	-58 to 158°F / -50 to 70°C (RT8101E only)
Ambient Operating Temperature	32 to 122°F / 0 to 50°C
Accuracy	±2°F / 1°C
Resolution	0.1°
Display	1.9" (W) x 0.8" (H) 48mm (W) x 21mm (H)
Battery	Solar, requires 250 lux
Probe Cord Length	39" / 1,000mm (RT8101E only)
Dimensions	2.5" (W) x 2.7" (H) x 0.5" (D) 64.3mm (W) x 68.3mm (H) 12mm (D)
Weight	1.4 oz. / 39.7 g.

To Order

RT8101	Solar Thermometer	$25
RT8101E	Solar Thermometer with External Sensor	$29

Precision pH Meter with Replaceable Electrode

Repacement Electrode VZ86P8AZ

- ±0.05 pH accuracy
- Big LCD dual display
- IP65 water proof
- Easy electrode replacement
- One-touch auto-calibration up to 3 points
- Data hold function

Specifications

pH Range	0.00 to 14.00 pH
pH Resolution	0.01 pH
pH Accuracy	±0.05
Temp. Range	32 to 122°F / 0 to 50°C
Temp. Resolution	0.1
Temp. Accuracy	±0.5°C
Operating Temp.	32 to 140 °F / 0 to 60°C
Operating RH%	<80%
Sensor Life	>6 months (with good maintenance)
Dimensions	6.9" (H) x 1.5" (W) x 1.5" (D) 176mm (H) x 39mm (W) x 39mm (D)
Weight	3.9 oz. / 110g.
Battery	4 x LR44

Our new 8689 pH meter does everything that the expensive models do at an affordable price. You get auto temperature compensation, 3-point calibration, ±0.05 accuracy, IP65 water resistant rating, dual display, and replaceable electrode.

To Order

8689	Precision pH Meter	$85
VZ86P8AZ	Replacement Electrode	$29

pH Spear

Calibration Kit WD-35624-70

- Penetrate meat, cheese, fruit, etc…
- Waterproof rating to IP67
- Accuracy to ±0.01pH
- Replaceable electrode

Great for testing food pH with high accuracy. Replaceable electrode allows long term use. Plastic electrode body prevents broken glass during food testing and resists clogging & contamination. Push button 3-point calibration.

Specifications

Range	-1.00 to 15.00 pH
Resolution	0.01 pH
Accuracy	±0.01 pH at room temperature, ±0.05 at temperature extremes
Calibration	Select up to 3 pts (USA: 4.01, 7.00, 10.00 or NIST: 4.01, 6.86, 9.18)
Operating Temp.	0 to 50°C
Temp. Compensation	None
Functions	On/Off or auto-off after 8 min., Hold, Cal and Confirm
Battery	4 x 1.5V LR44, 500 hours
Dimensions	6.5" (H) x 1.5" ∅.

To Order

WD-35634-40	pH Spear	$297
WD-35634-50	Replacement Electrode	$176
WD-35624-70	Calibration Kit	$40.00

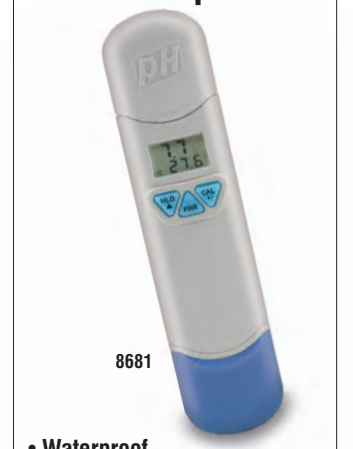
Low-Cost pH Meter ±0.3pH

8680

- **Waterproof**
- **One-touch auto-calibration**
- **Up to 3 point cal 4,7,10**
- **Cal values adjustable**
- **Data hold function**
- **Auto power-off**

You can't beat this price. Simple to use and waterproof.

Waterproof pH Meter ±0.2pH



8681

- **Waterproof**
- **Auto-temp compensation**
- **One-touch auto-calibration**
- **Up to 3 point cal 4,7,10**
- **Cal values adjustable**
- **Data hold function**
- **Auto power-off**
- **°C/°F switchable**

Choose this model for professional performance, durability and still a great price. Auto temperature compensation ensures good accuracy. Dual display shows temperature and pH at the same time.

Precision pH Meter ±0.05pH

8682

- **Waterproof**
- **Auto-temp compensation**
- **One-touch auto-calibration**
- **Up to 3 point cal 4,7,10**
- **Cal values adjustable**
- **Data hold function**
- **Auto power-off**
- **°C/°F switchable**

Easily your best value in a pocket-sized, waterproof pH pen with high precision. Auto temperature compensation with excellent accuracy. Dual display shows temperature and pH at the same time.

Specifications

	8680	8681	8682
Accuracy	±0.3pH	±0.2pH	±0.05pH
Range	2.0 to 12.0 pH	0 to 14 pH	0 to 14 pH
Resolution	0.1 pH	0.1 pH	0.01 pH
Temp. Accuracy	-	±1°C	±0.5°C
Temp. Resolution	-	0.5°C/0.5°F	0.1°C/0.1°F
Ambient Operating	0 to 50°C, 0 to 80% RH	0 to 50°C, 0 to 80% RH	0 to 50°C, 0 to 80% RH
Dimensions	1.42" (W) x 6.3" (H) x 0.98" (D)	1.42" (W) x 6.3" (H) x 0.98" (D)	1.42" (W) x 6.3" (H) x 0.98" (D)
Battery	Button cell 4 x LR44.	Button cell 4 x LR44.	Button cell 4 x LR44.
Water Resistance	IP65	IP65	IP65

Zipper Wallet
830-001

Handheld
Fits comfortably in your hand or shirt pocket.

To Order

8680	Low-Cost Waterproof pH Meter, 0.3pH	$39
8681	Waterproof pH Meter, 0.2pH	$49
8682	Precision pH Meter, 0.05pH	$75
830-001	Protective Zipper Wallet	$8

pH Calibration Solutions

To Order

WD-00654-00	pH Buffer solution 4.01, 500ml	$13
WD-00654-04	pH Buffer solution 7.00, 500ml	$13
WD-00654-08	pH Buffer solution 10.00, 500ml	$13
WD-35653-04	pH Buffer Pouch assortment pack 20ml pouches, 5 each of 4.01, 7.00 & 10.00 plus rinse solution	$30
WD-05942-15	pH Solution Assortment, 500ml bottles, 1 each of 4.01, 7.00 & 10.00, rinse/clean solution, storage solution	$49

6000 Series Humidity Meters

6000

6100

- **Integral or remote probe**
- **High accuracy – 2%rh**
- **Min/Max and dew point**
- **10,000 hour battery life with auto-off**
- **Small lightweight ergonomic design**
- **Robust Lumberg connector (6100)**

Designed for critical applications in aerospace, pharmaceutical, metrology and environmental monitoring, our new 6000 series are precision instruments. With accuracy to ±2%rh over the full range 0 to 100%, you'll be confident in your measurements with a display resolution of 0.1%. Even use these meters to check other RH devices.

A clear LCD display shows humidity, temperature, and dew point with added features like Hold and Min/Max. Both models are powered by three 1.5V AAA batteries with a life expectancy of 10,000 hours and an auto-off feature that maximizes battery life.

For external monitoring of chambers. A remote climate probe is available with our 6100 hygrometer. Each probe is equipped with a 6-pin screw-down Lumberg connector. Probes are interchangeable without requiring recalibration.

Specifications

Range	-4 to 122°F (-20 to 50°C) / 0 to 100% RH
Resolution	0.1°F or °C / 0.1%RH
Accuracy	±1°F ±1 digit / ±2% (10 to 90% RH)
Temp Sensor	Silicone Bandgap
Humdity Sensor	Capacitance Polymer
Battery	3 x AAA, Min. 5 yrs (10,000 hrs.)
Auto-Off	After 10 minutes
Display	.5" (12mm) LCD
Weight	4.6 oz. (130g.)
Dimensions	1" x 2.2" x 5" (25mm x 56mm x 128mm)
Calibration	NIST-Traceable Calibration Cert. (optional)

To Order

224-600	6000 RH Meter w/integral probe	$109
224-610	6100 RH Meter w/external probe	$159
830-253	Protective Rubber Boot	$12
832-050	Wall Mounting Bracket	$15
224-615	Spare Probe for 6100 Meter	$69
CAL-RH2PT	2-point RH Calibration Certificate	$65

Accessories

Rubber Boot
830-253

Wall Bracket
832-050

Optional Calibration Certificate
CAL-RH2PT

Reference Thermometer

- **Certified accuracy to ±0.4°F / ±0.2°C**
- **Includes 5-point traceable cal cert**
- **Meets high accuracy requirements in dairy, pharmaceutical, and other critical industries**
- **Great choice for inspectors and auditors**
- **Attached probe is calibrated with the meter to ensure high "system" accuracy**

This thermometer features a high stability platinum RTD sensor rated at 1/10th the conformance limits of the DIN specification. The general purpose probe is attached to a high precision resistance thermometer that provides 0.1° resolution. The combination is calibrated as a system to minimize all errors and the final deviations are given for five temperatures on the included calibration certificate.

Specifications

Range	-148.0 to 199.9°F / -148.0 to 199.9°C
Resolution	0.1°F or °C
Accuracy	±0.2°C (±0.4°F)
Cal Points	0, 32, 104, 158, and 199°F -18, 0, 40, 70 and 100°C
Probe	100 ohm platinum RTD, 1/10th DIN, 5"L x 1/8" dia. S.S. general purpose probe type
Battery	9V, 200 hours
Dimensions	5.8" (H) x 3.15" (W) x 1.42" (D) / 147mm (H) x 80mm (W)x 36mm (D)
Calibration	NIST-Traceable Certificate included

To Order

222-005	Reference Thermometer °C	$279
222-505	Reference Thermometer °F	$279

DT-3321 Precision Humidity Meter

- **High accuracy (±2%)**
- **Fast response time**
- **Large dual display**
- **Backlight**
- **Temperature, humidity, dew point, wet bulb, and mixing ratio**
- **Foam-lined storage case included**

This professional hygrometer features fast-response relative humidity and temperature sensors with exceptional precision. Others charge considerably more for ±2% RH accuracy. The well-designed DT-3321 feels good in the hand. It's compact, lightweight and easier-to-use than other hygrometers, pyschrometers and humidity meters.

Specifications

Range: Humidity	0 to 100%RH
Temperature	-22 to 199°F / -30 to 100°C
Dew Point Temp	-22 to 199°F / -30 to 100°C
Wet Bulb Temp	32 to 176°F / 0 to 80°C
Mixing Ratio	0 to 500GPK / 0 to 3500GPP
Resolution: Humidity	0.1%RH
Temperature	±1°F/C
Dew Point Temp	±1°F/C
Wet Bulb Temp	±1°F/C
Mixing Ratio	0.1GPK / GPP
Accuracy: Humidity	to ±2%RH
Temperature	±0.9°F/0.5°C
Dew Point Temp	±1.8°F/1°C
Wet Bulb Temp	±1.8°F/1°C
Mixing Ratio	±3%GPK / ±3%GPP
Display	Dual LCD. 0.5s update
Response Time	<15s (90% of value in moving air)
Battery Life	3 x AAA, 48 hours continuous use
Size	2.5" W x 9.4" H x 1.1" D 63mm W x 240mm H x 28mm D
Auto Shutoff	After 10 min; can be disabled
Weight	7 oz. / 200 g.
Includes	Batteries, storage case

To Order

DT-3321	Precision Hygro-Thermometer	$129
CAL-RH2PT	2-point RH Calibration Certificate	$65

P650 / P650EX / P655 Precision Handheld Reference Thermometers ±0.03°C Accuracy

- ±0.03°C system accuracy
- NIST-Traceable certificate provided
- Dual line display with differential function (P655)
- Probes include unique calibration code
- Fast-mode displays 4 readings per second
- New intrinsically safe model (P650-EX)

Show with optional probe 6000-1018, sold separately.

Save your budget with this affordable NIST-Traceable thermometer. Use this series for calibration of other thermometers, process validation, or for precision research. Change probes anytime by entering each probe's calibration code into the meter. Calibration certificates are included with each. Choose the single channel P650 for budget savings. Also available in the Intrinsically Safe version, P650-EX. Or, choose the P655 dual channel model. All include an RS232 interface (software and cable optional).

Specifications

	P650/ P650EX / P655
Inputs	P650: 1-RTD / P655 2-RTD
Display Range	-328 to 1562°F / -200 to 850°C
Probe Range	-328 to 842°F / -200 to 450°C
Accuracy (includes meter and probe combined)	±0.05°F from -148 to 302°F / ±0.03°C from -100 to 150°C ±0.09°F from -328 to 392°F / ±0.05°C from -200 to 200°C 0.1% rest of range
Sensor Type	Precision 4-wire Pt100 RTD
Resolution	0.01° to 200°, then 0.1°
Units	°F / °C / Ohm
Output	RS-232 interface included (software optional)
Connectors	8-pole DN 45326
Measuring Interval	1 reading per second in standard mode, 4 per second in fast mode
Battery	9V battery, included; approx. 20 hours continuous use
Dimensions	8" x 3.4" x 1.5" / 200mm x 85mm x 40mm
Weight	1.1 lbs. / 500 g.
Calibration	NIST-Traceable Certificate included

To Order

P650	1-Channel, Precision Handheld Reference Thermometer, ±0.03°C system accuracy (probes sold separately)	$576
P650-EX	Intrinsically safe, P650, 1-Channel with EX-Mark: EEX ib IIb T4, Precision Handheld Reference Thermometer, ±0.03°C system accuracy (probes sold separately)	$1,395
P655	2-Channel, Precision Handheld Reference Thermometer, ±0.03°C system accuracy (probes sold separately)	$676
5090-0081	Graphical Interface Software for P600 Series and P795 meters (USB & RS-232 cable sold separately)	$180
5090-0002	RS-232 Cable for P600 Series	$29
5090-0035	RS-232 to USB Adapter for P600 Series	$57
1490-P655	Rugged Instrument Carrying Case, fits P600 and P795 series meters, 2 probes up to 12", and cables	$199

Probes for P600 Series

Model	Description	Size	Range	Price
6000–1018	High Precision Immersion Probe, (includes calibration data)	1/8" dia. x 6"L 3.0mm x 150mm	-328°F to 842°F (-200°C to 450°C)	$189
6000–1019	High Precision Immersion Probe, (includes calibration data)	1/8" dia. x 12"L 3.0mm x 300mm	-328°F to 842°F (-200°C to 450°C)	$219
6000–1023C	High Precision Immersion Probe, (includes calibration data)	1/16" dia. x 6"L 1.4mm x 150mm	-328°F to 842°F (-200°C to 450°C)	$269
6000–1023D	High Precision Immersion Probe, (includes calibration data)	1/32" dia. x 6"L 1.0mm x 150mm	-328°F to 842°F (-200°C to 450°C)	$349
6000–1023S	High Precision Lab Probe (includes calibration data)	1/32" dia. x 2"L 1.0mm x 50mm	-328°F to 842°F (-200°C to 450°C) (cable to 150°C)	$295

P795 Precision Handheld Reference Thermometer ±0.015°C Accuracy

- **±0.015°C system accuracy**
- **2 Channels**
- **NIST-Traceable certificate provided**
- **Dual line display with differential function**
- **Probes include unique calibration code read by meter**
- **Fast-mode displays 4 readings per second**
- **USB interface and software**
- **Resolution to 0.001°**

Show with optional probe 6000-1773, sold separately.

The New P795 includes all the features of the P655 but with on-board data logging and system accuracy to ±0.015°C. Take calibration-lab performance into the field or use it on the test bench with full confidence in its NIST-Traceable certificate. Research or analytical lab procedures can be monitored with resolution to 0.001°C. USB interface is included on the meter. Add the optional PC software and cable for high precision data acquisition of one or two channels. Compares to bench-top meters costing twice as much!

Rugged Case
1490-P655

Specifications

Inputs	2 / RTD
Data Logging	Yes-4,000 internal
Display Range	-328 to 1562°F / -200 to 850°C
Probe Range	-328 to 842°F / -200 to 450°C
Accuracy (includes meter and probe combined)	±0.03°F from -58 to 392°F ±0.015°C from -50 to 199.99°C otherwise ±0.025%
Sensor Type	Precision 4-wire Pt100 RTD
Resolution	0.001° to 200°, then 0.01°
Units	°F / °C / Ohm
Operating Temp.	32 to 104°F / 0 to 40°C
Display	2-line LCD with log memory indicator
Output	USB
Connectors	8-pole DN 45326
Measuring Interval	1 reading per second in standard mode, 4 per second in fast mode
Housing	ABS plastic
Battery	9V Battery, included, approximately 20 hours
Dimensions	8.7" x 3.9" x 1.5" / 220mm x 98mm x 39mm
Weight	1.1 lbs. / 500 g.
Calibration	NIST-Traceable Certificate included

To Order

P795	2-Channel with Data-Logging, Precision Handheld Reference Thermometer, ±0.015°C system accuracy (probes sold separately)	$995
5090-0081	Graphical Interface Software for P600 Series and P795 meters (USB & RS-232 cable sold separately)	$180
5090-0046	USB Cable for P795	$49
1490-P655	Rugged Instrument Carrying Case, fits P600 and P795 series meters, 2 probes up to 12", and cables	$199

Probes for P795 (calibration constants load automatically)

Model	Description	Size	Range	Price
6000–1773	P795 High Precision Lab Probe, (includes calibration data)	1/8" dia. x 6"L 3.0mm x 150mm	-328°F to 842°F (-200°C to 450°C)	$259
6000–1774	P795 High Precision Lab Probe, (includes calibration data)	1/8" dia. x 12"L 3.0mm x 300mm	-328°F to 842°F (-200°C to 450°C)	$289
6000–1784	P795 High Precision Lab Probe, (includes calibration data)	1/4" dia. x 12"L 6.0mm x 300mm	-328°F to 842°F (-200°C to 450°C)	$329

USB Reference Probe, NIST-Traceable ±0.05°C Accuracy

- **Range from -55 to 150°C (-67 to 302°F)**
- **Accuracy to ±0.05°C (±0.09°F)**
- **Plugs directly into USB Port**
- **Resolution to 0.01°**
- **Includes Windows software**
- **Receive email & text alerts**
- **Includes NIST-Traceable Certificate**

Specifications

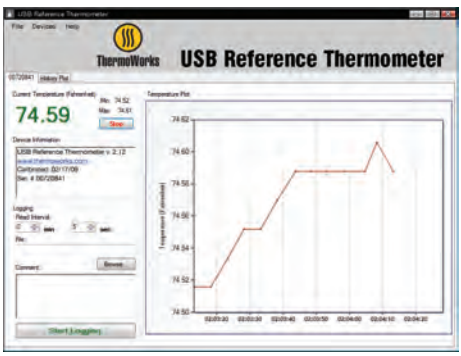
Range	-55 to 150°C / -67 to 302°F
Accuracy	±0.05°C (±0.09°F) from 0 to 70°C (32 to 158°F) ±1.5°C (±2.7°F) full range
Resolution	0.01 °C
Probe	1/8" (3.2mm) diameter x 9" (229mm) length, 316 SST
Cable Length	6' (approx. 2m)
Power	No battery, powered by USB port on PC
Software	Windows 2000, XP, Vista 32-bit compatible
Calibration	NIST-Traceable Calibration Certificate included with test data at 0, 25, 70, and 100°C

For $250 you get a high precision thermometry system with accuracy to ±0.05°C from 0 to 70°C (±0.1°C to 100°C). You would pay $1,500 for a conventional meter and probe with this accuracy that logs data and includes a traceable certificate.

The USB Reference Probe is ideal for calibration labs and instrument shops performing routine calibrations in baths and dry block calibrators. Its 1/8" (3.2mm) probe diameter means fast response and increased flexibility in performing comparison calibrations. Simply insert the probe into a stirred laboratory bath or dry block along with your test thermometers and compare readings over multiple temperatures.

If you're still using mercury thermometers, now is the best time to replace them with an easy-to-use digital thermometer with super high precision. Plug the USB probe into your PC, open the software and you've got a digital reference thermometer without having to squint or interpolate to get your readings. Connect up to 10 probes within the same software window and monitor multiple applications simultaneously (depending on the availability of USB ports).

Each probe includes an individual NIST-Traceable calibration certificate with test data at 0, 25, 70, and 100°C. The free software gives you the ability to store data to the PC and setup hi and low alarm conditions with email alerts.



Software Included
Connect up to 10 probes, log to the PC, and get email alerts.

Cal Lab Precision
Use in a dry-block calibrator or calibration bath to test temperature probes by comparison.

To Order

USB-REF	USB Reference Thermometer, ±0.05°C, includes software and NIST-Traceable calibration certificate	$249
USB-EXT-10	USB Extension Cable, 10 feet (3m)	$12

Dry-Well Thermometer Calibrators

3000 Series

3101 Cold Block

Calibrate at temperatures of your choice.

Portable and affordable these dry-well calibrators speedily check or calibrate most thermometers and temperature probes. Set a temperature, wait a few minutes for the block to get there, then insert your thermometer and compare its reading to the calibrated dry-well display.

The 3000 Series heated units test temperatures up to 572°F. Choose from a fixed block hole pattern to fit the probe diameters you use. Or, choose the 3004 Dry-Well with a removeable insert that can be matched to the probes you test.

The 3101 Dry-Well is cooled with solid-state modules for cold temperatures as low as 14°F (-10°C) and up to 230°F. Check the ice point without an ice bath! This unit features interchangeable block inserts for the probe sizes of your choice.

All models include a NIST-Traceable certificate. These prices are a great value for this level of precision and quality.

Specifications

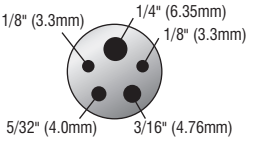
	3001/2/3/4 Series Hot Block	3101 Cold Block
Range	91.4°F to 572°F (33°C to 300°C)	14°F to 230°F -10°C to 110°C
Accuracy	±0.5°C from 33 to 199.9°C	±0.5°C from -10 to 99.9°C
Resolution	0.1°	
Stability	±0.5°C	±0.5°C
Heating Time	Ambient to 572°F / 300°C after 10 minutes	Ambient to 212°F / 100°C after 10 minutes
Cooling TIme	572°F / 300°C to 212°F / 100°C after 10 minutes	Ambient to 32°F / 0°C after 10 minutes
Stabilization	5 minutes	5 minutes
Well Depth	4" / 100mm	4" x 0.5" / 100mm x 12.7mm
Hole Configuration ***(see illustrations at right)***	3001: 5-hole, fixed 3002: 4-hole, fixed 3003: 2-hole, fixed 3004: 2-hole; 1 fixed, 1 brass insert	2-hole, brass insert
Display	0.4" / 10mm 4-digit LED	0.4" / 10mm 4-digit LED
Power	115 or 230 volts	
Dimensions	2.25" (W) x 5" (H) x 6.25" (D) 57mm (W) x 125mm (H) x 158mm (D)	3.5" (W) x 6" (H) x 7.3" (D) 89mm (W) x 152mm (H) x 186mm(D)
Weight	2 lbs. / 900 g.	3.9 lbs. / 1,800 g.
Calibration	NIST-Traceable Certificate included	

To Order

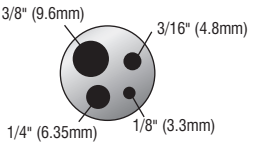
Limited Time Price!

271-331	3001 Hot Block Dry-Well, 115VAC, °F	Was ~~$1,095~~ **$895**
271-332	3002 Hot Block Dry-Well, 115VAC, °F	Was ~~$1,095~~ **$895**
271-333	3003 Hot Block Dry-Well, 115VAC, °F	Was ~~$1,095~~ **$895**
271-334	3004 Hot Block Dry-Well, 115VAC, °F, with 1/8" insert	Was ~~$1,195~~ **$995**
271-431	3101 Cold Block Dry-Well, 115VAC, °F, with 1/8 & 3/16" inserts	Was ~~$1,695~~ **$1,395**
271-321	Brass Insert for 3004 and 3101 - 1/8"	$79
271-322	Brass Insert for 3004 and 3101 - 1/8"	$79
271-323	Brass Insert for 3004 and 3101 - 1/8"	$79
271-324	Brass Insert for 3004 and 3101 - 1/8"	$79
271-325	Brass Insert for 3004 and 3101 - 1/8"	$79

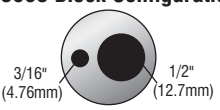
3001 Block Configuration



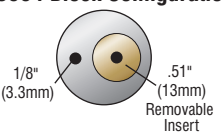
3002 Block Configuration



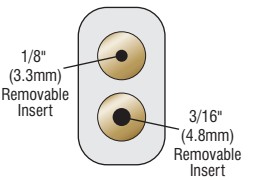
3003 Block Configuration



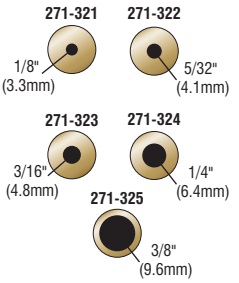
3004 Block Configuration



3101 Block Configuration



Removable Brass Inserts for 3004 & 3101



9140 Series Field Metrology Wells

- **Lightweight, portable, and fast.**
- **Cool to –25°C in 15 minutes and heat to 660°C in 15 minutes**
- **Built-in two-channel readout for PRT, RTD, thermocouple, 4-20 mA current**
- **True reference thermometry with accuracy to ±0.01°C**
- **On-board automation and documentation**
- **Metrology performance in accuracy, stability, uniformity, and loading**

The 9140 Series Field Metrology Wells provide calibration lab performance in a field or industrial environment. These units are at-home on a lab bench or in the plant. Portability, speed, precision and functionality are maximized.

Designed and manufactured by Fluke, Hart Scientific Division (about a 1/2 mile from ThermoWorks) these instruments are lightweight, compact and quick to reach temperature set points. They offer the best in stability, uniformity and traceable accuracy.

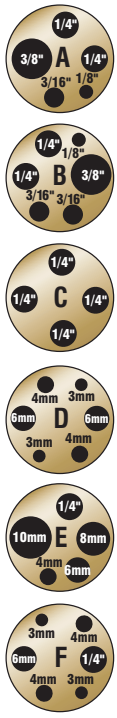
Optional built-in Process Electronics can read thermocouples,RTD's and 4-20mA process loops. A reference probe can be added to improve the on-board reference thermometer function to ±0.01°C. Three models offer ranges starting at -25°C and reaching 660°C. On-board documentation and automation features are included.

We know temperature calibration pretty well and we carry these dry-wells because they're the best in their class. NIST-Traceable calibration certificates are included.

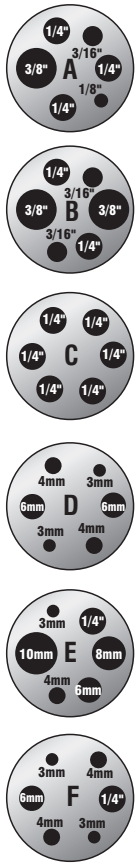
Base Unit Specifications

	9142	9143	9144
Range	-13 to 302°F / -25 to 150°C	91 to 662°F 33 to 350°C	122 to 1220°F 50 to 660°C
Accuracy	±0.2°C Full range	±0.2°C Full Range	±0.35°C at 50°C ±0.35°C at 420°C ±0.5°C at 660°C
Stability	±0.01°C Full Range	±0.02°C at 33°C ±0.02°C at 200°C ±0.03°C at 350°C	±0.03°C at 50°C ±0.05°C at 420°C ±0.05°C at 660°C
Well Depth	5.9". / 150mm		
Heating Time	16 min: 23 to 140°C 23 min: 23 to 150°C 25 min: –25 to 150°C	5 min: 33 to 350°C	15 min: 50 to 660°C
Cooling Time	15 min: 23 to –25°C 25 min: 150 to –23°C	32 min: 350 to 33°C 14 min: 350 to 100°C	35 min: 660 to 50°C 25 min: 660 to 100°C
Dimensions	11.4" (H) x 7.3" (W) x 11.6" (D) / 290mm (H) x 185mm (W) x 295mm (D)		
Weight	18 lbs. / 8.16 kg.	16 lbs. / 7.3 kg.	17 lbs. / 7.7 kg.
Power	100 V to 115 V (±10%) 50/60 Hz, 635 W 230 V (±10%) 50/60 Hz, 575 W	100 V to 115 V (±10%), 50/60 Hz, 1400 W 230 V (±10%), 50/60 Hz, 1800 W	
Computer Interface	RS-232 and 9930 Interface-it control software included		

9142 Inserts



9143 / 9144 Inserts



To Order

9142-X*	Field Metrology Well 9142 and one insert, -25 to 150ºC	$4,975
9142-X*-P	Field Metrology Well 9142 and one insert, -25 to 150ºC, with Process Electronics	$6,225
9143-X*	Field Metrology Well 9143 and one insert, 33 to 350ºC	$3,890
9143-X*-P	Field Metrology Well 9142 and one insert, 33 to 350ºC, with Process Electronics	$5,145
9144-X*	Field Metrology Well 9144 and one insert, 50 to 660ºC,	$4,695
9144-X*-P	Field Metrology Well 9144 and one insert, 50 to 660ºC, with Process Electronics	$5,950
9142-INSX*	Optional Inserts for 9142	$305
9143-INSX*	Optional Inserts for 9143	$435
9144-INSX*	Optional Inserts for 9144	$450

* X Designates choice of insert

MicroCal Thermocouple Simulator

- Check thermometers, controls, transmitters, etc…
- Easy-to-set with easy-to-read digital display
- Store 12 preset temperatures of your choice
- Resolution to 0.1°, Accuracy to ±0.2°C

Instantly test any brand of thermocouple meter.

Check the accuracy of your instrument against this traceable thermocouple simulator. Simply plug the MicroCal 2 into your thermocouple meter and select a temperature.

Save up to 12 of your most frequently used temperatures, set new ones anytime. The LCD provides 0.1° resolution up to 1999.9 with 1° above that. A simple mode button adjusts user settings. Auto-off preserves battery life and can be disabled.

The Microcal 2 is available in thermocouple types K, T and J, and comes with the appropriate thermocouple cable fitted with mini-plugs. A certificate of calibration is provided.

Specifications

Range	K: -328 to 2501°F / -200 to 1372°C T: -454 to 752°F / -270 to 400°C J: -328 to 2192°F / -200 to 1200°C
Accuracy	±0.4°F / 0.2°C, ±1 digit
Ambient Temp.	0 to 50°C
Battery	2 x AAA, 300 hours
Sensor Types	Type K, T, or J thermocouple
Dimensions	2.87" (W) x 5.5" (H) x 1.38" (D) 73mm (W) x 140mm(H) 35mm (D)
Calibration	NIST-Traceable Certificate included

To Order

271-200	Microcal 2K Thermocouple Simulator	$349
271-202	Microcal 2T Thermocouple Simulator	$349
271-201	Microcal 2J Thermocouple Simulator	$349
830-205	Protective PVC Boot	$12

VA710 Thermocouple Simulator
VA720 RTD Simulator

Available July 2010

VA710
Thermocouple Simulator

VA720
RTD Simulator

VA710—
- Measure and simulate 8 different thermocouple types
- Measures and outputs mV
- Very simple operation
- Large digit display

VA720—
- Measure and simulate 7 different RTD types
- Select 2-, 3-, or 4-wire measurement mode
- Accuracy to ±0.1 Ohms, ±0.2°C
- Large digit display

Check or calibrate any thermocouple or RTD instrument. Competing calibrators typically cost 2 or 3 times more.

Use the VA710 to calibrate thermocouple meters with 8 different thermocouple types plus mVs. Simply plug-in to your instrument, dial in the desired temperature and compare. It's that easy.

For testing RTD instruments, choose our VA720. Simulate and measure 7 different RTD types in 2-wire, 3-wire, or 4-wire mode. Large single-function buttons and a big digit display make these tools instrument shop favorites.

Specifications

	VA710	VA720
Measurement Type	Thermocouple type J, K, T, E, R, S, B, N	Pt10, Pt50, Pt100, Pt200, Pt500, Pt1000, Pt100 JIS
Range	-10 to 75mV	0.00 to 3200Ω
Accuracy (Input/Output)	Type K: ±0.3°C+10µV Type T: ±0.3°C+10µV	Pt100(4W):±0.3°C Pt1000(4W): ±0.2°C
Resolution	0.01mV or 0.1° max	0.01Ω or 0.1°C max
Battery	6 x AAA	
Size	8.1" (H) x 3.9" (W) x 1.8" (D) 205mm (H) x 98mm (W) x 46mm (D)	
Weight	16.6 oz. / 472 g.	

See web site for complete specifications and accessories.

To Order

VA710	Thermocouple Simulator	$349
VA720	RTD Simulator	$379

IR500
Infrared Temperature Calibrator (Blackbody)

Check the performance of infrared guns quickly and easily with our new IR-500. Set the display to the desired temperature, then point your infrared thermometer at the target, shoot and record. It's that easy.

The isothermal 2.25 inch black body target is manufactured to approximate an emissivity of 0.95, which is ideal for most industrial infrared thermometers. For increased accuracy, insert a 1/8" diameter reference probe into the reference well at the top of the target and use an external reference thermometer as the standard.

Each IR-500 includes a NIST-Traceable calibration certificate issued from our own calibration lab. We also include the test data at 122°F and 212°F (50°C and 100°C). An optional 5-point calibration is also available to 752°F (400°C).

The IR-500 provides a stable blackbody source for certifying all types of infrared thermometers.

Go to www.thermoworks.com for more infrared calibration tools for temperatures from -15°C to 700°C with accuracies to ±0.35°C.

- **Check/Certify IR thermometers to 932°F (500°C)**
- **Large 2.25 inch (57mm) diameter black body target**
- **Includes 1/8" (3.2mm) diameter well for a precision reference RTD thermometer**

Specifications

Range	122 to 932°F / 50 to 500°C)
Accuracy	±1.0°F at 212°F (±0.5°C at 100°C) ±3.6°F at 932°F (±1.8°C at 500°C)
Stability	±0.2°F at 212°F (±0.1°C at 100°C) ±0.6°F at 932°F (±0.3°C at 500°C)
Target Size	2.25" (57mm)
Target Emissivity	0.95
Resolution	0.1°C/°F
Heating Time	40 minutes to max.
Cooling Time	45 minutes max. to 212°F (100°C)
Power	110V AC, 3A or 230V AC (±10%), 1.5A
Size	4.49" (W) x 7.08" (H) x 9.17" (D) i 114mm (W) x 180mm (H) x 233mm (D)
Weight	5.9 lbs. (2.682 kg.)
Calibration	Includes 2-point NIST-Traceable Certificate at 122 & 212°F (50 & 100°C)

To Order

Limited Time Price!

IR-500-110	Portable Infrared Calibrator, 932°F, includes 2-point NIST-Traceable certificate of calibration (122 & 212°F / 50 & 100°C—110VAC	Was: ~~$1,195~~ Now: $795
IR-500-220	Portable Infrared Calibrator, 932°F, includes 2-point NIST-Traceable certificate of calibration (122 & 212°F / 50 & 100°C—220VAC	Was: ~~$1,195~~ Now: $795
CAL-IR500	Optional 5-point NIST-Traceable certificate of calibration (122, 212, 392, 572, 752°F / 50, 100, 200, 300, 400 °C	$90
P-1450	Optional rugged carrying case	$88

Infrared Comparator Cup

Shown with 222-505 Reference Thermometer and IR Gun, sold separately.

- **Portable and easy to use**
- **No external power required**
- **Quick test at room temperature**
- **Use to test all types of IR thermometers**

The Infrared Comparator Cup provides a stable black body temperature. The comparator cup is an inexpensive way of checking infrared hand-held thermometers against a known reference thermometer.

The comparator consists of an aluminum cup with a solid matte black base, the base incorporates a 3.5mm (1/8") reference thermometer hole for probe insertion.

The comparator can be used at any temperature within the ambient range of the instrument to be tested. The information from the reference thermometer can be used to compare readings against the test instrument. Then only instruments with unacceptable errors need to be returned to the supplier for re-calibration or certification.

To Order

814-132	Infrared Comparator Cup	$69
222-505	Reference Thermometer °F, NIST-Traceable	$279
222-005	Reference Thermometer °C, NIST-Traceable	$279

Mini Calibration Bath

Shown with 222-505 Reference Thermometer and others, sold separately.

- **Simple, low-cost method to test thermometers**
- **Use with a traceable reference thermometer**
- **Test probes at 32°F and 130°F**

Using a solid-state peltier heat-pump, the Mini Calibration Bath quickly cools to about 71°F below ambient (near 32°F) and heats to approximately 130°F. Immerse your thermometer and compare its reading to a traceable reference thermometer. Operation is easy. One button for Hot, one for Cold. Fill its reservoir with crushed ice and a little water, turn the Cold button on, and in a few moments you'll have an ice-bath ready for calibrations at a perfect 32.0°F. Our tests show the bath will maintain the ice point at 32.0°F with a stability of at least ±0.3°F for over four hours. For hot temperatures, the bath will continue heating until it reaches approximately 130°F.

Specifications

Range	32°F (71 below ambient) and 130°F (0 and 55°C)
Accuracy	±0.5°C in a stable ambient temp
Power	Included AC adaptor
Power Consumption	Cooling: 20W / Heating: 18W
Bath/Cup Capacity	300ml

To Order

822-950	Mini Temperature Calibraton Bath	$59
222-505	Reference Thermometer °F, NIST-Traceable (see page 40)	$279
222-005	Reference Thermometer °C, NIST-Traceable (see page 40)	$279

TEMPERATURE BATHS

8000 Series Compact Heated Baths/Circulators

- **Range from 86 to 392°F / 30 to 200°C**
- **Stability to ±0.01°C (depends on controller selected)**
- **Very small footprint, low profile**
- **6 liter fluid capacity**
- **Choice of 4 controllers**

9100 Series Chilled Calibration Baths/Circulators

- **Range from -4 to 392°F / -20 to 200°C**
- **Stability to ±0.01°C (depends on controller selected)**
- **Small upright design (less than 1 sq. ft. footprint)**
- **6 liter capacity**
- **Choice of 4 controllers for same base unit**

Designed and manufactured in the U.S.A., these temperature baths offer top value for an affordable price. The performance, quality and long-term reliability exceed most of the competition. Widely chosen for temperature calibration and general purpose lab or research applications, these units can be used as self-contained baths or circulators for control of external equipment. We've shown a selection of our 6-liter models but larger volumes and other temperature ranges are offered at thermoworks.com. All are available with a range of controller options to fit your budget and performance needs.

Basic Analog Control, ±0.2°C stability - Most affordable option provides dial setpoints.

Standard Digital Control, ±0.05°C stability - Economical digital control setpoints.

Advanced Digital Control, ±0.01°C stability - Top performance includes 0.01°C settability.

Programmable Digital Control, ±0.01°C stability - Same as the Advanced Model but includes time and temperature programing.

Specifications

	8012	8002	8006	812	9112	9102	9106	912
Range	86°F to 392°F 30°C to 200°C		86°F to 302°F 30°C to 150°C	86°F to 212°F 30°C to 100°C	4°F to 392°F –20°C to 200°C		4°F to 302°F -20°C to 150°C	4°F to 212°F -20°C to 100°C
Reservoir	6 liters				6 liters			
Cooling	N/A				+20°C 200 Watts / 0°C 140 Watts / -10°C 100 Watts			
Stability	±0.01°C		±0.05°C	±0.2°C	±0.01°C		±0.05°C	±0.2°C
Controller	Programmable	Digital	Standard	Analog	Programmable	Digital	Standard	Analog
Computer I/O	RS232		N/A		RS232		N/A	
Readout	Graphic LCD, °F or °C		LCD, °F or °C	Thermometer (supplied)	Graphic LCD, °F or °C		LCD, °F or °C	Thermometer (supplied)
Readout Accuracy	±0.25°C		±0.5°C	N/A	±0.25°C		±0.5°C	N/A
Heater	60Hz: 1100 watts 50Hz: 2200 watts		60Hz: 1100 watts 50Hz: 1600 watts		60Hz: 1100 watts 50Hz: 2200 watts		60Hz: 1100 watts 50Hz: 1600 watts	
Working Access	5.25 L x 5.25 W x 5.5 D in 13.3 L x 13.3 W x 14 D cm				5.25 L x 5.25 W x 5.5 D in 13.3 L x 13.3 W x 14 D cm			
Dimensions	14.75 L x 8.25 W x 14 D in (37.5 L x 21 W x 35.6 cm)				14.75 L x 8.25 W x 14 D in (37.5 L x 21 W x 35.6 cm			
Ship Weight	29 lbs / 13.3 kg		23 lbs / 10.5 kg		70 lbs / 32 kg		64 lbs / 29 kg	
Inlet & Outlet	1/4 in FPT Rear Discharge				1/4 in FPT Rear Discharge			

To Order

8012A11B	8102 Temperature Bath, Programmable Controller, 110V*	$2,947
8002A11B	8002 Temperature Bath, Digital Controller, 110V*	$2,298
8006A11B	8006 Temperature Bath, Standard Controller, 110V*	$1,635
80A0A11B	812 Temperature Bath, Analog Controller, 110V*	$1,275

To Order

9112A11B	9112 Temperature Bath, Programmable Controller, 110V*	$3,851
9102A11B	9102 Temperature Bath, Digital Controller, 110V*	$3,122
9106A11B	9106 Temperature Bath, Standard Controller, 110V*	$2,459
91A0A11B	912 Temperature Bath, Analog Controller, 110V*	$2,238

**220V models available - Call for pricing*

Capabilities

- **Handheld meters and probes**
- **Infrared thermometers/guns**
- **Data loggers**
- **Humidity meters**
- **Panel meters & controllers**
- **Dial thermometers**

Unlike most suppliers of industrial thermometers, ThermoWorks has a fully operational calibration laboratory that offers NIST-Traceable certificates. Standards are kept for Infrared and contact thermometry and are regularly sent to primary temperature labs to maintain NIST-Traceability.

Our metrology lab employs calibration baths with stabilities to ±0.001°C for accurate probe calibrations. Our Hart Scientific metrology standard has a published accuracy to ±0.005°C. We know you are serious about your work. So are we.

In our blackbody calibration lab, we use six different Blackbody Targets from internationally recognized metrology suppliers. We can check IR accuracy from -30 to 700°C and offer NIST-Traceable calibration certificates.

Humidity calibrations are performed in a two-pressure humidity generator from Thunder Scientific with accuracy to ±0.5% RH.

Ask your current instrument supplier for a NIST-Traceable certificate and you'll see why so many are switching to the experts at ThermoWorks.

NIST-Traceable Infrared Calibrations

- **Infrared calibrations from -22 to 1292°F (-30 to 700°C)**
- **Single and multi-point certificates**
- **Certificates offered with new purchases or recalibration services**
- **6 different blackbody targets from multiple vendors**
- **Offered for any IR manufacturer**

To Order: Infrared NIST-Traceable Certificates

CAL-IR3	NIST IR Cal Service, 3-pt Infrared, (0°C, 100°C, 250°C)	$35
CAL-IRFS	NIST IR Cal Service, 3-pt Infrared Food Service, (0°C, 60°C, 100°C)	$35
CAL-IR5L	NIST IR Cal Service, 5-pt Infrared low-temp, (0°C, 50°C, 100°C, 200°C, 300°C)	$55
CAL-IR5M	NIST IR Cal Service, 5-pt Infrared High-temp, (0°C, 100°C, 200°C, 300°C, 500°C)	$65
CAL-IR5H	NIST IR Cal Service, 5-pt Infrared High-temp, (0°C, 100°C, 250°C, 500°C, 700°C)	$75

NIST-Traceable Probe & Meter Calibrations

- **Probe calibrations from -112 to 2192°F (-80 to 1200°C)**
- **Meter calibrations from -256 to 2300°F (-160 to 1260°C)**
- **System calibrations offered**
- **NIST-Traceable humidity calibrations**
- **Data logger calibrations**

To Order: NIST-Traceable Certificates

CAL-1PT	NIST Cal Service, 1-pt Probe/Meter	$35
CAL-2PT	NIST Cal Service, 2-pt Probe/Meter	$45
CAL-3PT	NIST Cal Service, 3-pt Probe/Meter	$60
CAL-4PT	NIST Cal Service, 4-pt Probe/Meter	$75
CAL-5PT	NIST Cal Service, 5-pt Probe/Meter	$90
CAL-RH1PT	NIST RH Cal Service, 40% RH, 1-pt temp	$35
CAL-RH2PT	NIST RH Cal Service, 30%, 60% RH, 1-pt temp	$65

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New Splash-Proof Thermapen

High speed thermocouple offers traceable accuracy better than ±0.4°C and reads a full temperature in only 3 seconds! Great for the lab or the plant floor!

Order online or by phone

L to R: Tom, Terral, Diane, Andy, Amanda, Lisa, Kevin, Dallen

New Warehouse/Tech Facility in Lindon, Utah

Already a leader in food service and processing, ThermoWorks is growing quickly as a major supplier to industrial and scientific markets. Our unique and innovative products make your budget go farther. Call us now for technical advice or to place an order. 95% of all orders ship the same day.